SOFTWARE USER MANUAL
STARWATCH ID BADGING PRO

STARWATCH ID BADGING PRO GUIDE

TABLE OF CONTENTS

1. INTRODUCTION **1**

STARWATCH ID BADGING PRO INTRODUCTION 1
ABOUT STARWATCH ID BADGING PRO *1*
STARWATCH ID BADGING PRO Installation Environment *1*
OPERATING SYSTEM 1
RECOMMENDED CONFIGURATION 2
Other Configuration (Network, Modem) *2*

2. CARD TRANSCRIBER INSTALLATION **3**

CARD TRANSCRIBER CONNECTION **3**

CARD TRANSCRIBER DRIVER INSTALLATION **3**

3. SOFTWARE INSTALLATION **4**

STARWATCH ID BADGING PRO INSTALLATION 4

KEY LOCK CONNECTION **4**

KEY LOCK DRIVER INSTALLATION **4**

STARWATCH ID BADGING INSTALLATION *6*

PROGRAM FOLDER **7**

4. STRUCTURE **8**

STARWATCH ID BADGING PRO STRUCTURE 8

MAIN WINDOW **8**

TITLE BAR AND MENU **9**

TITLE BAR AND MENU 9
MENU STRUCTURE AND SHORT CUT KEY 9

FUNCTION TOOLBAR **12**

PROPERTY WINDOW **13**

DRAWING TOOLBARS 13

DRAWING TOOLBAR **13**

5. 5. FUNCTION **14**

MENU **14**

FILE 14
TOOLS 17
HOW TO USE BASIC DIAGRAMS 21
HOW TO SELECT MANY DIAGRAMS 24
HOW TO EDIT BY USING KEYBOARD 27
PROPERTIES 27
DATABASE CONFIGURATION 31

6. PHOTO EDITOR **41**

MAIN WINDOW **41**

MENU **42**

FILE 42

EDIT 44
IMAGE 44
CHANNEL 46
DRAWING 47
EFFECT 49
FILTER 51

FUNCTION TOOLBAR 52

FUNCTION TOOLBAR DESCRIPTION 52

METHOD IN USING PHOTO EDITOR 55

OPERATION OF PHOTO EDITOR. 55
TO BRING IMAGE FROM DIGITAL EQUIPMENT(DIGITAL KAME, PC CAMERA, AND ETC.) 56
CUTTING THE IMAGE 60
CHANGING IMAGE TO BLACK AND WHITE. 61
CONTROL OF COLOR TONE, CHROMA, AND BRIGHTNESS 62
IMAGE ROTATION 63
EXAMPLES ON FILTER USE 64
FILTER DESCRIPTION 65

1. INTRODUCTION

STARWATCH ID BADGING PRO INTRODUCTION

This chapter explains STARWATCH ID BADGING PRO's main functions and installation environments.

ABOUT STARWATCH ID BADGING PRO

Software that will print in all kinds of card printer easily and quickly

-. User friendly interface

It is made of the most simple and easy interface to use.
Most functions of working screen are made of user friendly icons for WINDOWS users.

-. Interface with database easily

It will interface with our access control software database. With this database, you can easily design and print for registered users in access control software. In addition, it supports database interface with ACCESS database or MS-SQL SERVER database.

-. Easy printing function

It supports various kinds of card printer. You can easily set up not only basic printing functions but also any individual printing quality.

STARWATCH ID BADGING PRO Installation Environment

Operating System

The following is STARWATCH ID BADGING PRO installation O.S.

Microsoft Windows 2000 Professional Edition (SP2 or later)

Microsoft Windows 2000 Server Edition (SP2 or later)

Microsoft Windows XP Home Edition (SP1 or later)

Microsoft Windows XP Professional Edition (SP1 or later)

Also, it is not necessary, but we recommend installing Internet Explorer 6. If you do not have this browser, you can download at Microsoft Web Site.

http://www.microsoft.com/downloads/search.aspx?displaylang=en

STARWATCH ID BADGING PRO is a 32 bit Windows compatible S/W. It operates in Windows 2000 Professional, Server Edition and higher versions, along with Windows XP Home and Professional Edition.

STARWATCH ID BADGING PRO does not support Microsoft Windows 95, 98, ME, or NT 4.0.

It is recommended the STARWATCH ID BADGING PRO to be installed in Windows 2000 Professional or Windows XP Professional. These operating systems are powerful and stable for STARWATCH ID BADGING PRO operations.

Recommended Configuration

Memory expansion improves system functions therefore, having more memory is beneficial.

- ✓ CPU : Pentium 4 -1G or Higher
- ✓ MEMORY : 256 megabyte or Higher
- ✓ HDD : 4G or Higher
- ✓ PORT : 4 Serial Port(Multi Port Card required) or Higher
- ✓ NETWORK : 1 Ethernet Card
- ✓ OS : Microsoft Windows 2000 Professional or Microsoft Windows XP Professional

Other Configuration (Network, Modem)

STARWATCH ID BADGING PRO can work with STARWATCH iTDC PRO series and STARWATCH DUAL PRO series.

If database server installed in remote, PC has to have network system to communicate each other.

2. CARD TRANSCRIBER INSTALLATION

This chapter explains Card Transcriber installation.

Note:

* Use card transcriber that we recommend.
* Read a manual before you use card transcriber.
* We will not take a responsibility for any defect due to the user's mishandling.

Card Transcriber connection

1) Connect card transcriber to PC that STARWATCH ID BADGING PRO installed.
   Depend on the type of card transcriber, Connect to USB port, Parallel port, and so on.

2) Check if card transcriber is power in and well connected to PC.

Card Transcriber driver installation

1) Check the connection between card transcriber and PC.

2) Check the PC's Operating System that connected to card transcriber.

3) If there is older version of driver, then delete it and install new version of driver.
   You may restart again.

4) Run driver file that came with card transcriber depending on your O.S.

5) Install driver referring to card transcriber manual.

6) If driver installation succeeds, shut down PC and restart again.

7) Run control panel of O.S. You can find printer menu in START → CONTROL PANEL. Check if card transcriber is installed correctly by running printer file.

8) See if card transcriber prints out test page correctly.

   If test page does not print out correctly, then it means that STARWATCH ID BADGING PRO will not work either.
   In this case, please refer to printer manual and follow any necessary steps to print out correctly.

3. SOFTWARE INSTALLATION

STARWATCH ID BADGING PRO installation

This chapter explains how to install software.

NOTE:

* Use O.S. that we recommend.
* STARWATCH iTDC PRO series or STARWATCH DUAL PRO series needs to be previously installed if you want them to interface with STARWATCH ID BADGING PRO.
  STARWATCH ID BADGING PRO will not run by itself.
* STARWATCH ID BADGING PRO Key Lock must connect into PC to run software.
  You must install the key Lock.
* Read software manual thoroughly before you use it.

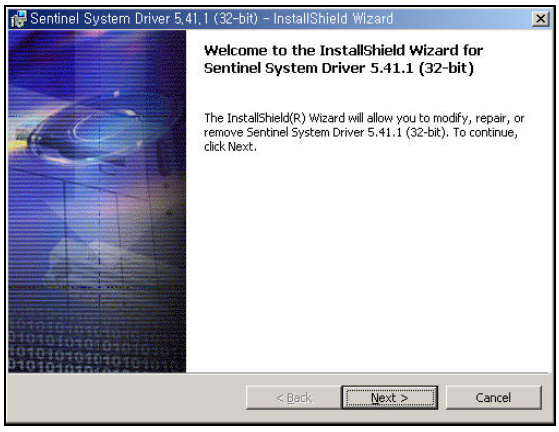
Key Lock connection

1) Connect Key Lock into PC that STARWATCH ID BADGING PRO is installed.

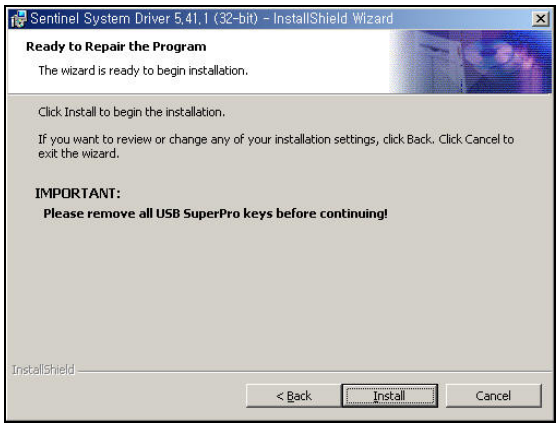
Key Lock driver installation

+ You need Key Lock to use STARWATCH ID BADGING PRO software.
  Connect Key Lock into PC and install **Key Lock driver.**

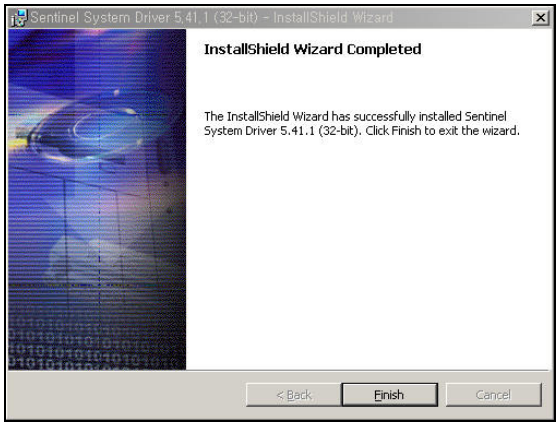
1) Run **SSD5411-32bit.exe** that comes with CD.
   Goes to next screen by clicking Next button.


Sentinel System Driver 5.41.1 (32-bit) - InstallShield Wizard
Welcome to the InstallShield Wizard for Sentinel System Driver 5.41.1 (32-bit)
The InstallShield(R) Wizard will allow you to modify, repair, or remove Sentinel System Driver 5.41.1 (32-bit). To continue, click Next.
< Back
Next >
Cancel

2) Click Install button. It will install all the related files into PC.


Sentinel System Driver 5.41.1 (32-bit) - InstallShield Wizard
Ready to Repair the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
IMPORTANT:
Please remove all USB SuperPro keys before continuing!
InstallShield
< Back
Install
Cancel

3) Installation complete after all the files copied.


Sentinel System Driver 5.41.1 (32-bit) - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Sentinel System Driver 5.41.1 (32-bit). Click Finish to exit the wizard.
< Back
Finish
Cancel

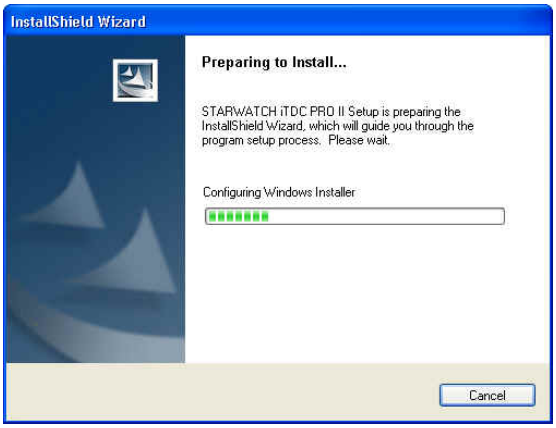
STARWATCH ID BADGING INSTALLATION

+ Install STARWATCH ID BADGING PRO into PC.

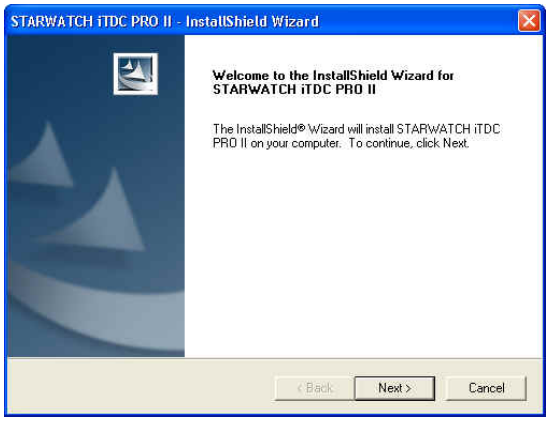
1) Select STARWATCH ID BADGINGII install files at STARWATCH ID BADGING released CD.

   Run Setup.exe inside of folder.

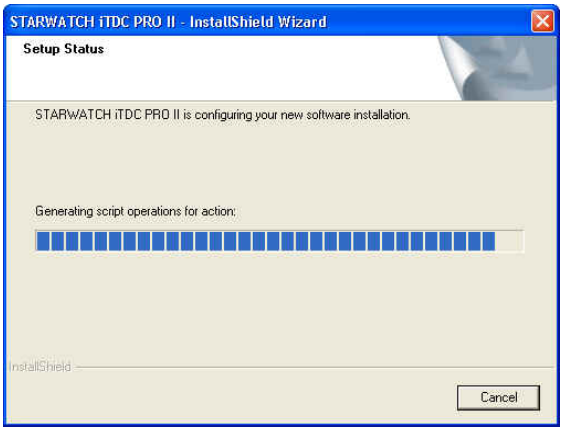
2) Initial screen pops up.


InstallShield Wizard
Preparing to Install...
STARWATCH iTDC PRO II Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Configuring Windows Installer
Cancel

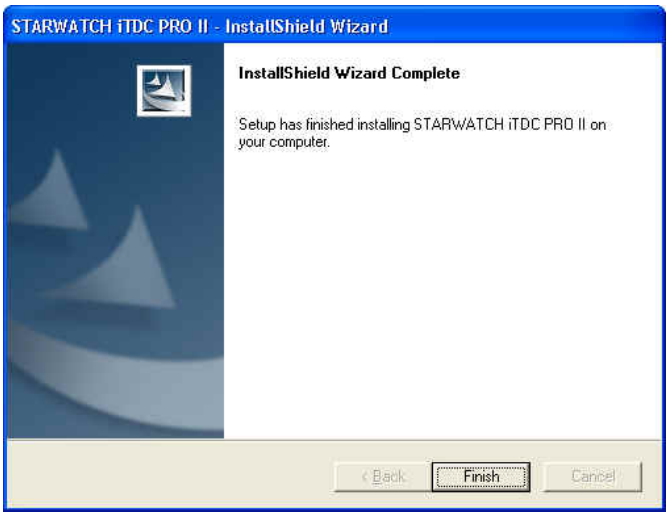
3) Start installation by clicking Next button.


STARWATCH iTDC PRO II - InstallShield Wizard
Welcome to the InstallShield Wizard for STARWATCH iTDC PRO II
The InstallShield® Wizard will install STARWATCH iTDC PRO II on your computer. To continue, click Next.
< Back
Next >
Cancel

4) Installation is processing. It can take some time depending on PC's performance.


STARWATCH iTDC PRO II - InstallShield Wizard
Setup Status
STARWATCH iTDC PRO II is configuring your new software installation.
Generating script operations for action:
InstallShield
Cancel

5) Installation complete after all the files copied.


STARWATCH iTDC PRO II - InstallShield Wizard
InstallShield Wizard Complete
Setup has finished installing STARWATCH iTDC PRO II on your computer.
< Back
Finish
Cancel

Program Folder

Explain the program folder that STARWATCH ID BADGING PRO is installed.

STARWATCH ID BADGING PRO will be installed under

C:\Program Files\STARWATCH\STARWATCH ID BADGING PRO directory by default.

Not like default setting, drive or folder that program installed can be changed by user.

4. STRUCTURE

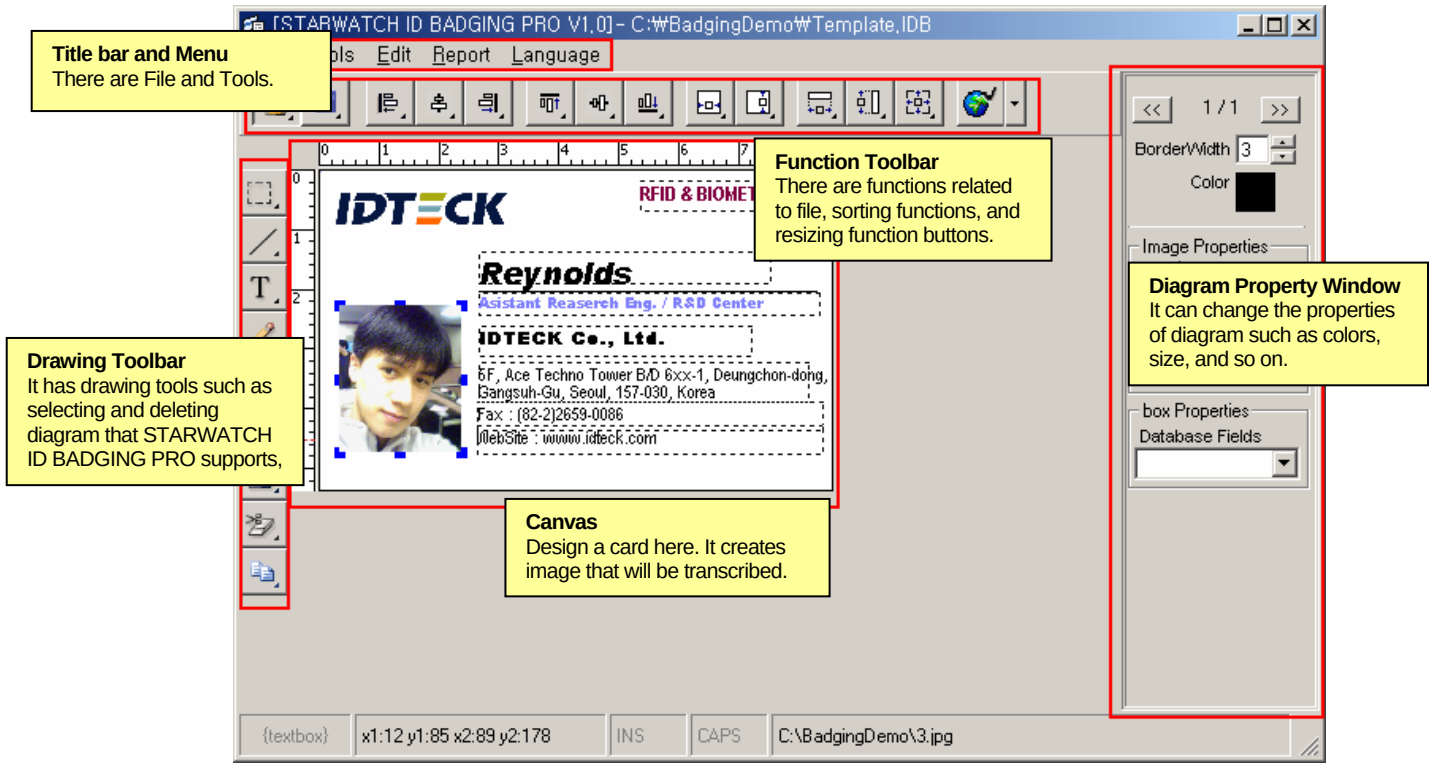
STARWATCH ID BADGING PRO structure

This chapter explains STARWATCH ID BADGING PRO structure. It explains main window, menu, standard icons, and so on.

Main Window

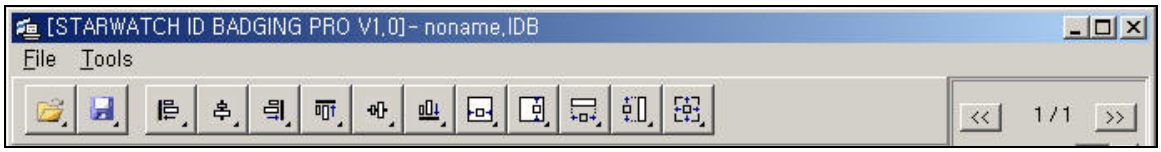
Main Window can be distinguished by four individual parts.

Upper part has File and Tools. Left and center, there is function toolbar. At right, there is diagram property. At center, there is a canvas to convey card transcriber image. Through Main Window, user can run program quickly and easily.



Title bar and Menu

Title bar and Menu



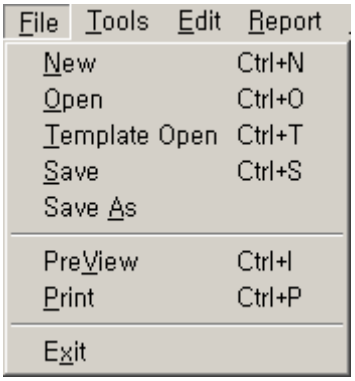
In title bar, program name and current version will be shown.

Menu comprises two menus, File and Tools. Each menu has related submenu and will run at the selection of submenu by user.

Menu Structure and Short Cut Key

- File

In File menu, there are functions such as file menu management, transcribing image management, transcribing output, and program exit function.

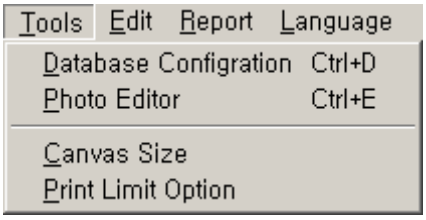


Menu			Shortcut Key
File			
	New	New file	CTRL + N
	Open	Open file	CTRL + O
	Template Open	Design Template File Open	CTRL + T
	Save	Save file	CTRL + S
	Save As	Save as other name	
	Preview	Preview before printing	CTRL + I
	Print	Print out	CTRL + P
	Exit	Exit program	

- Tools

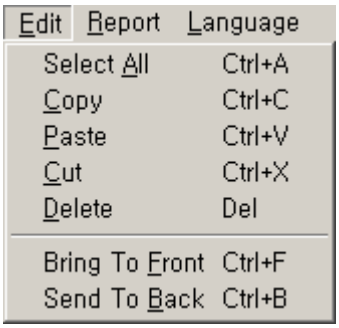
This is a menu that will set up for standard working environment when STARWATCH ID BADGING PRO runs.

You can configure database interface and resize canvas here.



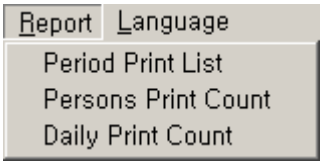
Menu			Shortcut Key
Tools			
	Database Configuration	Database set up	CTRL + D
	Photo Editor	Photo Editor	CTRL + E
	Canvas Size	Canvas set up	
	Print Limit Option	Print Limit Option set up	CTRL + E

- Edit



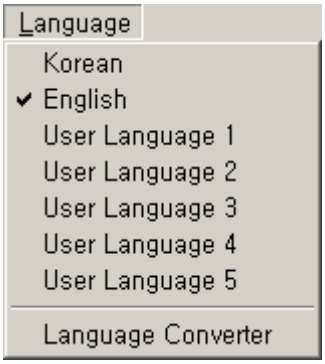
Menu			Shortcut Key
Edit			
	Select All	Select all diagrams	CTRL + A
	Copy	Copy selected diagrams	CTRL + C
	Paste	Paste selected diagrams	CTRL + V
	Cut	Cut selected diagrams	CTRL + X
	Delete	Delete selected diagrams	Delete
	Bring To Front	Bring to front selected diagrams	CTRL + F
	Send To Back	Send to back selected diagrams	CTRL + B

- Report



Menu			Shortcut key
Report			
	Period Print List	Period Print List Report	
	Persons Print Count	Persons Print Count Report	
	Daily Print Count	Daily Print Count Report	

- Language



Menu			Shortcut key
Language			
	Korean	Korean	
	English	English	
	User Language 1	User Language 1	
	User Language 2	User Language 2	
	User Language 3	User Language 3	
	User Language 4	User Language 4	
	User Language 5	User Language 5	
	Language Converter	Run Language Converter	

Function Toolbar

- File Toolbars explanation

Tools	Name	Contents
	Open	Open transcribed image that is saved in other folder.
	Save	Save transcribed image that finished working. At the first save, automatically Save As window pops up.

- Alignment and Adjusting Size Toolbars

Each function icon is followed.

Tools	Name	Contents
	Left alignment	Selected diagrams will be aligned to the left in horizontal.
	Center alignment	Selected diagrams will be aligned to the center in horizontal.
	Right alignment	Selected diagrams will be aligned to the right in horizontal.
	Vertically upper alignment	Selected diagrams will be aligned to the upper side in vertical.
	Vertically centered alignment	Selected diagrams will be aligned to the center in vertical.
	Vertically down alignment	Selected diagrams will be aligned to the down side in vertical.
	Horizontal alignment	All selected diagrams will be aligned to the center of canvas in horizontal.
	Vertical alignment	All selected diagrams will be aligned to the center of canvas in vertical.
	Same width	All selected diagrams' width will be automatically resizing to be evenness.
	Same height	All selected diagrams' height will be automatically resizing to be evenness.
	Same size	All selected diagrams' width and height will be automatically resizing to be evenness.
	Language Converter	it possible change basic language used in program.

More than two diagrams should be selected to operate except the alignment to the horizon or vertical in canvas.

Property Window

Property Window can be different by selected diagrams.

Drawing Toolbars

Use drawing toolbars to design any diagrams on canvas.

- Drawing Toolbars explanation

Toolbars	Name	Contents
	Select	Select diagram on canvas.
	Line	Draw a line on canvas.
	Text	Insert text on canvas.
	Pen	Draw a free line on canvas.
	Square	Draw a square on canvas.
	Circle	Draw a circle on canvas.
	Picture	Insert an image or picture on canvas.
	Eraser	Erase the selected diagram.
	Select All	Select all the diagrams on canvas.

Drawing Toolbar

It explains about drawing and image icons that will be used for making transcribed image.

Refer to the Property Setting from Function Explanation for the details.

5. 5. FUNCTION

This Chapter will explain the function of program in details.

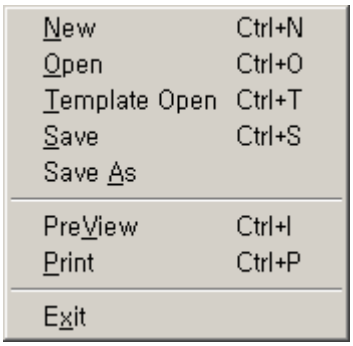
Menu

On the top, there are two kinds of menu, File and Tools.

Each menu's detailed explanation is followed.

File

File menu has file management, print management, and exit function. For file management, there are New, Open, Save, and Save As. For print management, there are Preview and Print.



- **New**

  Close a working file and open new file. You will be asked if you want a working file to be close.

- **Open**

  Open a file that already is designed. STARWATCH ID BADGING PRO uses *.IDB for design file.

- **Template Open**

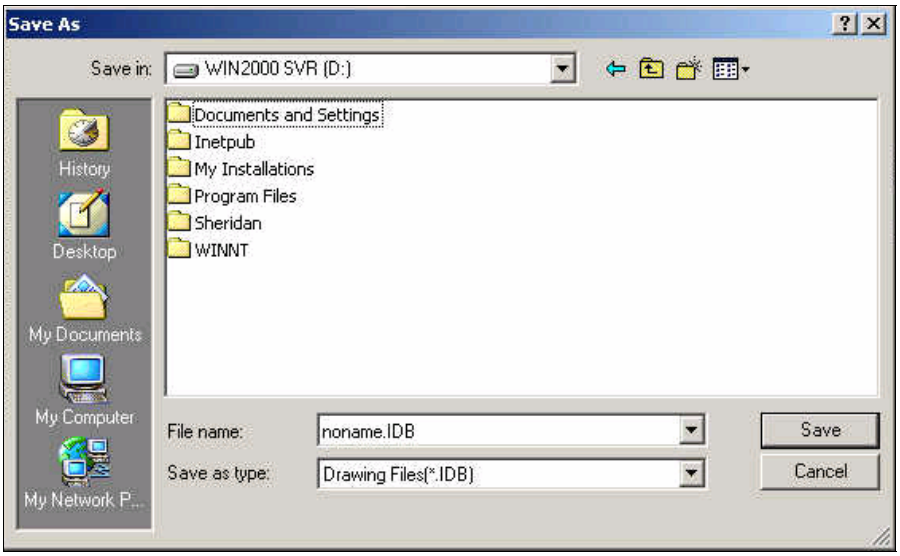
  Open a template file that already is designed.

- **Save**

  It will save that is currently working on and saved already. For the first save, Save As window will pop up.

- **Save As**

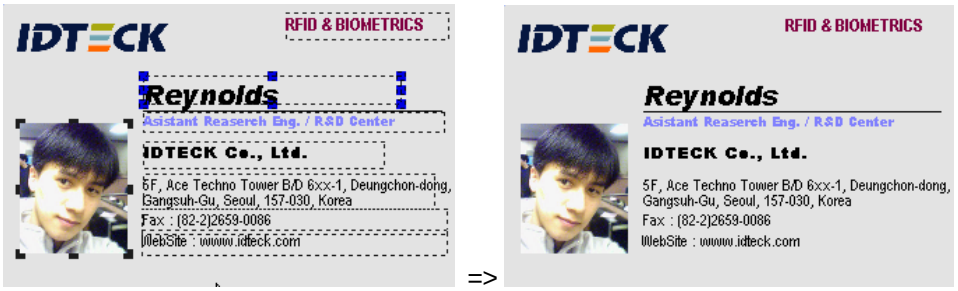
Save As window will pop up. After inputting a new file name, it will save a designed image with other file name as you click <Save> button.



- **Preview**

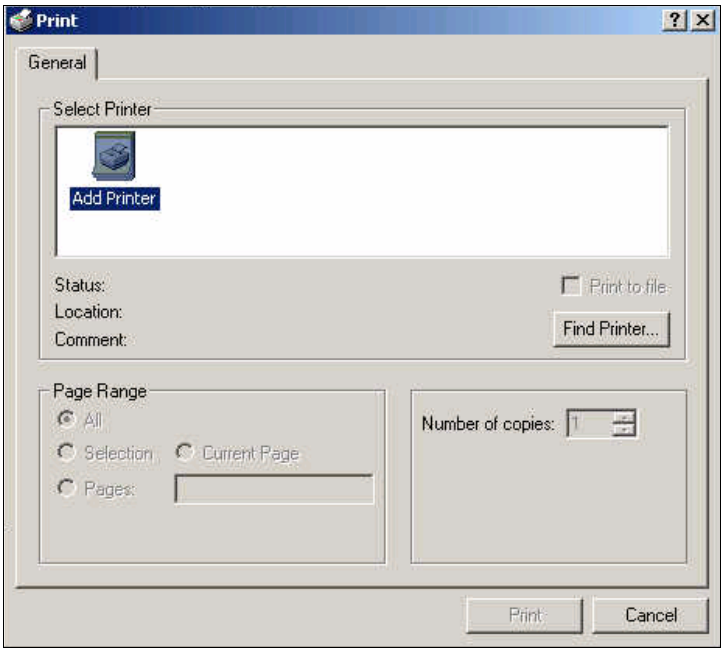
Editing mode will be transferred to the Preview screen.

All the selected diagrams will be unselected and a grid view will disappear. It will show a card design same as you print out. If you click on the screen, it will go back to editing mode.



- **Print**

Print window will pop up. The printer option can be different depends on what printer you use.



Page Range has three options.

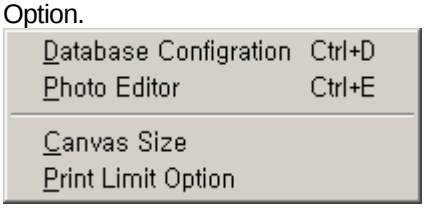
Section	Contents	Remark
All	Print out all cards. All the registered people in database will be printed out.	Refer to Database Section.
Selection	Print out current screen.	
Pages	Print out only selected pages. Input page number or page range. E.g. 1-3	

- **Exit**

Exit a program. You will be asked if you want a working file to be saved before it is close.

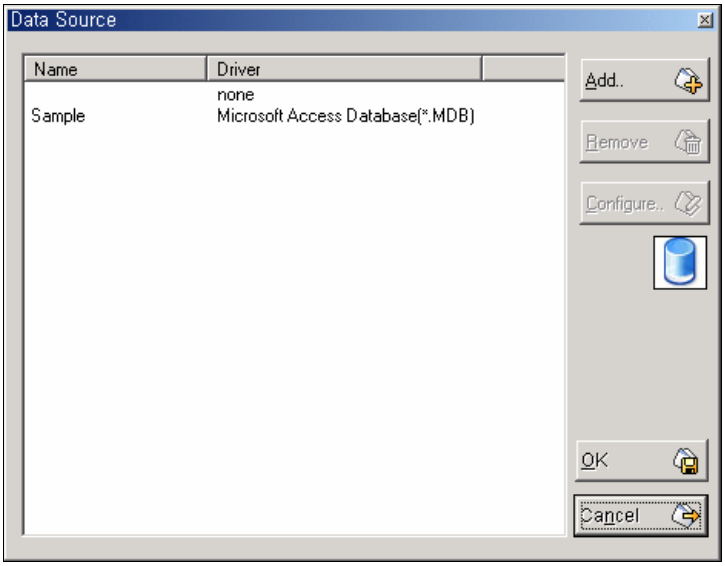
Tools

It comprises of Database Configuration and Photo Editor, Canvas size tools, Print Limit Option.



- **Database Configuration tool**

  You can print out many people in a row as STARWATCH ID BADGING PRO interfaces with the database.



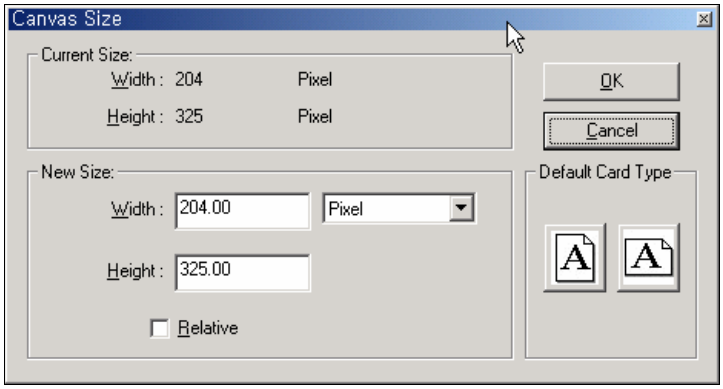
  Refer to the Database Configuration for details.

- **Photo Editor**

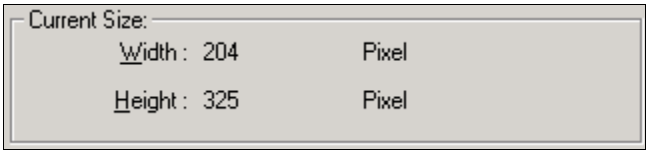
  Run the Photo Editor. If you need more detail information refer to the Photo Editor chapter.

- **Canvas Size tool**

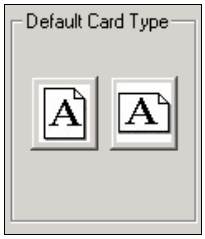
You can resize canvas.



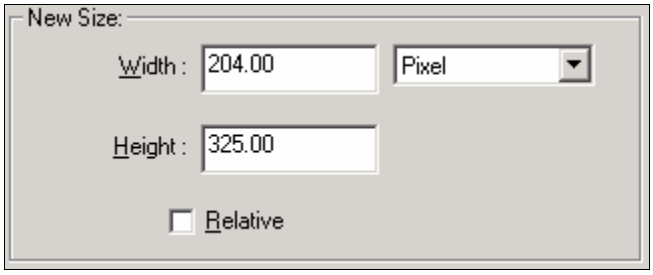
1) It shows you the current canvas size.



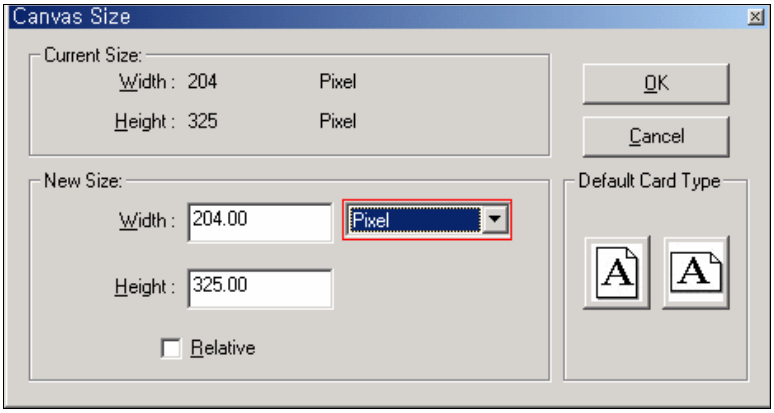
2) If you want a size to be default card type size for portrait or landscape, then select either one in the Default Card Type box and click <O.K.>

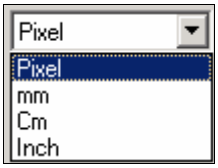


3) If you want specific size for width and height, then input your desired number for new size

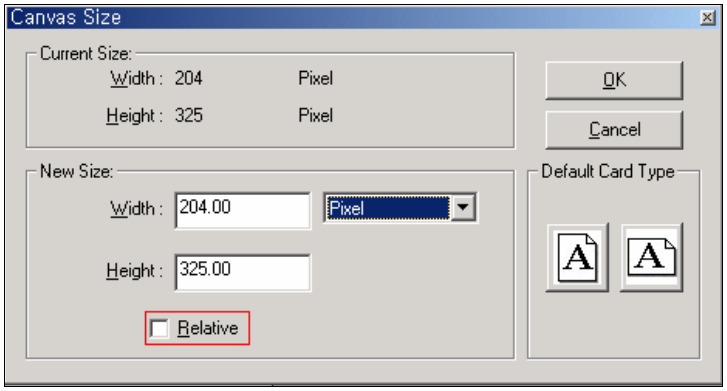


4) If you want to change a unit, then click on below combo box. Then, select a unit that you want.





5) If you want width and height to be automatically resizing relatively, then select a check box.

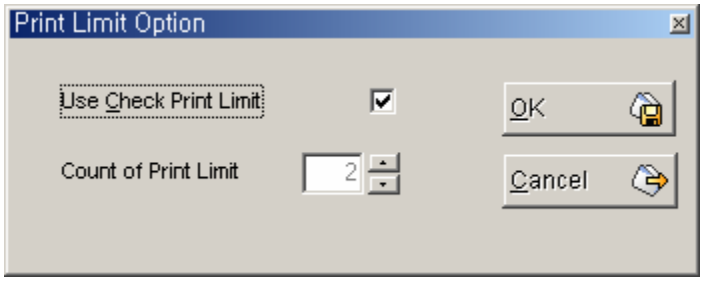


6) Set up desired canvas size, then click <O.K.> button. It will resize canvas.

7) If you don't want any change then, click <Cancel> button.

- **Print Limit Option**

Can limit the number of printing in exiting and entrancing by person.



1) When wish to use limiting number of times in printing, check output number of times limitation use.

2) Select the number of times that user wishes to limit.

3) Select confirmation button to store.

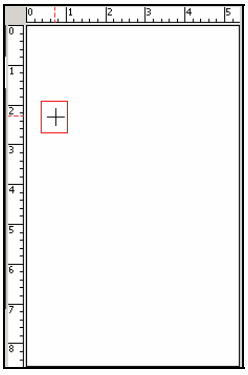
How to use basic diagrams

It explains how to use diagrams in general.
It also explains Adding, Deleting, Positioning, and Resizing functions for diagram.

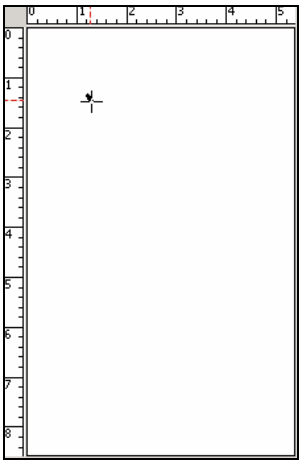
- **Adding diagram**

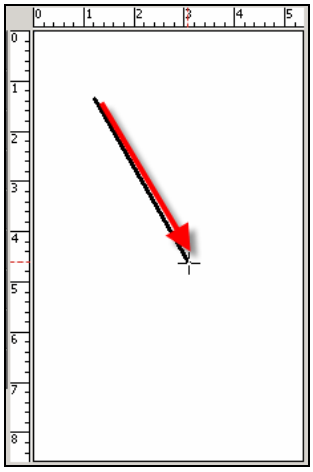
1) Select desired diagram to add from Drawing Toolbar.

2) Move mouse on canvas. Cursor changes to the cross shape.

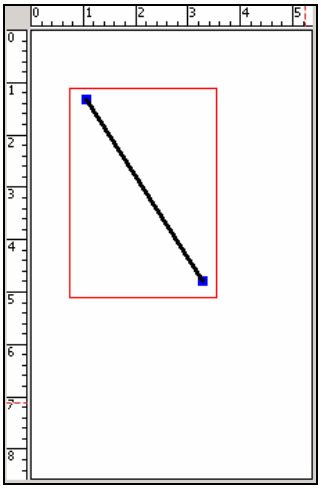


3) Start Dragging with the right mouse click from the point where you want image to be designed on canvas.





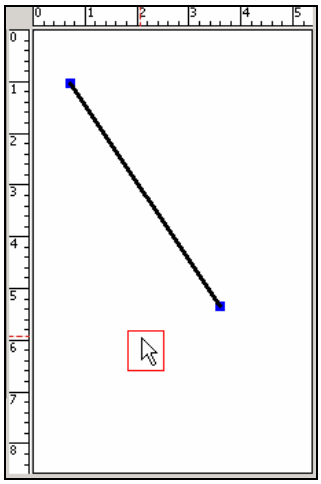
4) Drop mouse cursor where you want it to be. You will see diagram just added.



■ **Positioning**

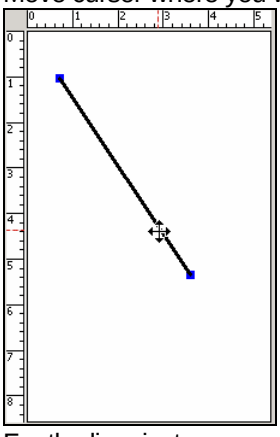
1) Move cursor to the empty space on canvas. Check if a cursor is in default arrow shape.

2) It is selecting and editing diagram mode if a cursor is in default arrow shape. If a cursor is not in default arrow shape, then click <Selecting> button.



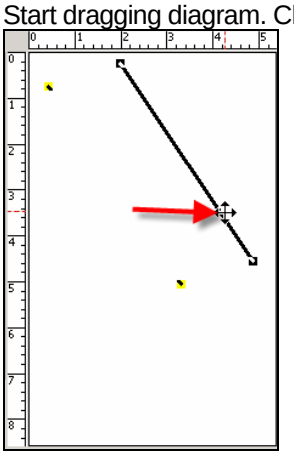
Selecting button

3) Move cursor where you want it to be. Cursor will change to the Moving cursor shape.



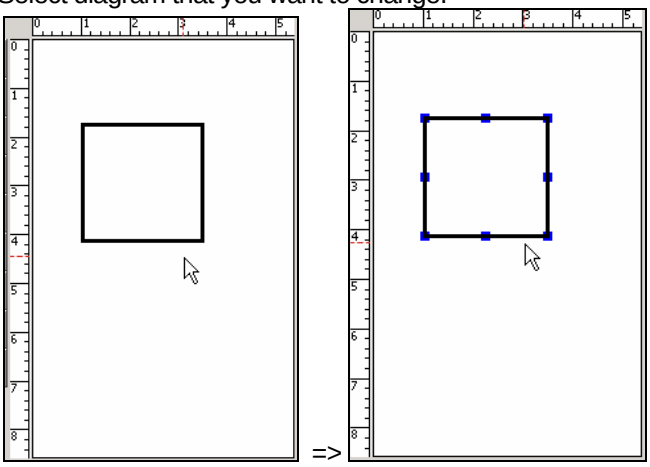
For the line, just move cursor on the line. For the text or image diagram, move cursor to the top of the diagram.

4) Start dragging diagram. Check if diagram's position is changing.



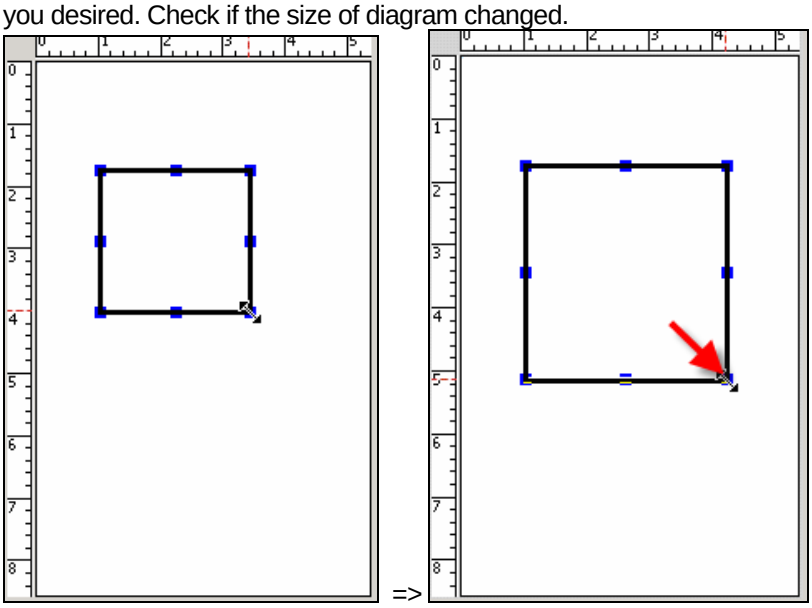
- **Resizing**

1) Select diagram that you want to change.



2) The selected square boxes will be shown on the diagram like above picture. For the straight line, the selected square boxes will show up at the both edge.

3) Start dragging with one of the selected square boxes to change the size of diagram as you desired. Check if the size of diagram changed.

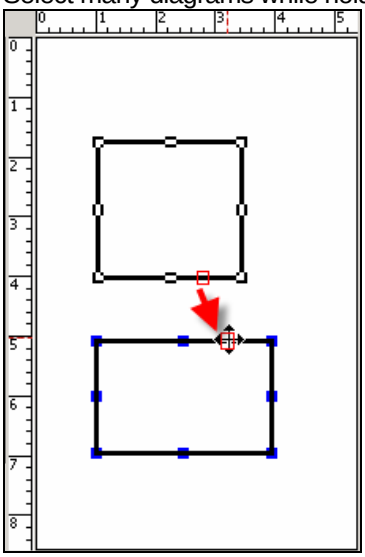


How to select many diagrams

You can edit diagrams by selecting many diagrams at the same time.

- **Select diagrams with < Shift > key**

1) Select many diagrams while holding the < Shift > key down.

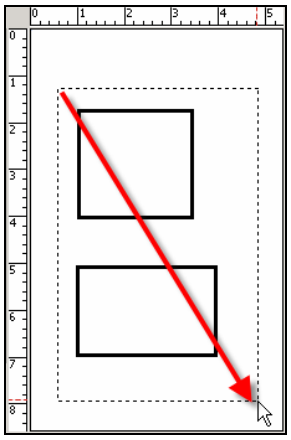


2) You will see the selected square boxes on the selected diagrams.
The last diagram with the selected blue boxes will be the main diagram.

3) Functions like changing color, resizing, positioning, and arranging alignment will apply to the selected diagrams as the main diagram changes.
Refer to each session for editing.

■ **Select with the range of selection**

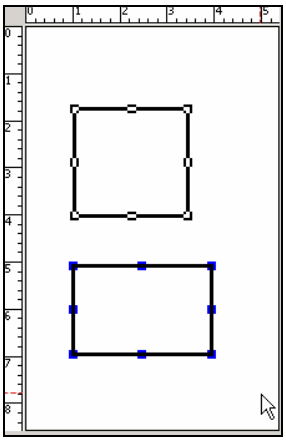
1) Click <Selecting> button.



Selecting button

2) By using drag & drop, make a rectangular box that covers the diagram that you want to be selected.

3) You will see the selected square boxes on the diagrams inside of rectangular range.



4) Functions like changing color, resizing, positioning, and arranging alignment will apply to the selected diagrams as the main diagram changes.
Refer to the each session for editing.

How to edit by using keyboard

You can edit diagram for resizing and positioning not only using mouse drag & drop but also using keyboard.

- **Functional key**

Session	Contents	Remark
Direction key (up/down/left/right)	Move the selected diagrams by one pixel.	
Ctrl + direction key	Move the selected diagrams by ten pixels.	
Shift + direction key	Adjust the size of selected diagram by one pixel.	
Ctrl + Shift + direction key	Adjust the size of selected diagram by ten pixels.	

Edition will apply to the all selected diagrams.

Properties

It explains how to set up each diagram's property.

- **Line Border Width – it applies to all kinds of diagrams.**

Decide line border.

How To:

1) Select diagram that you want to change a line border. You can select as many as you want.

2) Change border width by using up/down arrow button.

- **Color – it applies to all kinds of diagrams.**

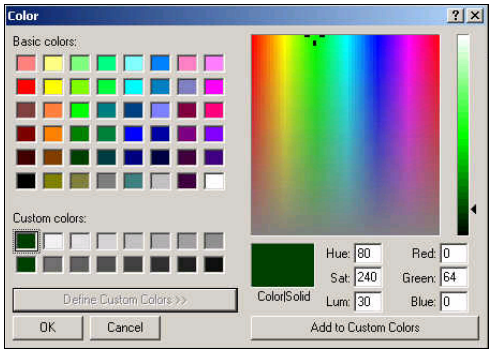
Decide diagram's color. It also can use for changing text color.

How To:

5) Select diagram that you want to change a color. You can select as many as you want.

6) Click color setting button.

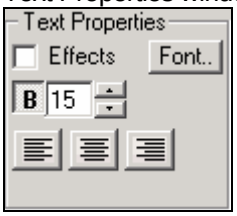
7) When color setting window pops up, select color that you desire.



8) It will change a color of selected diagram.

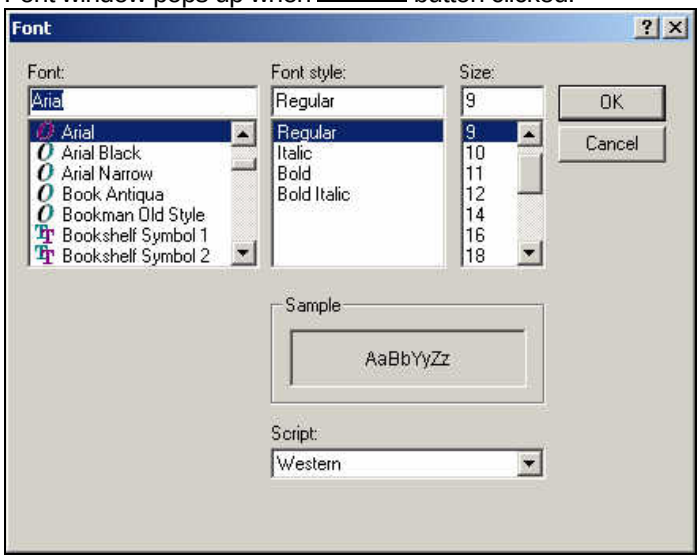
■ **Text Properties**

Text Properties window pops up at the right when you select the text diagram.



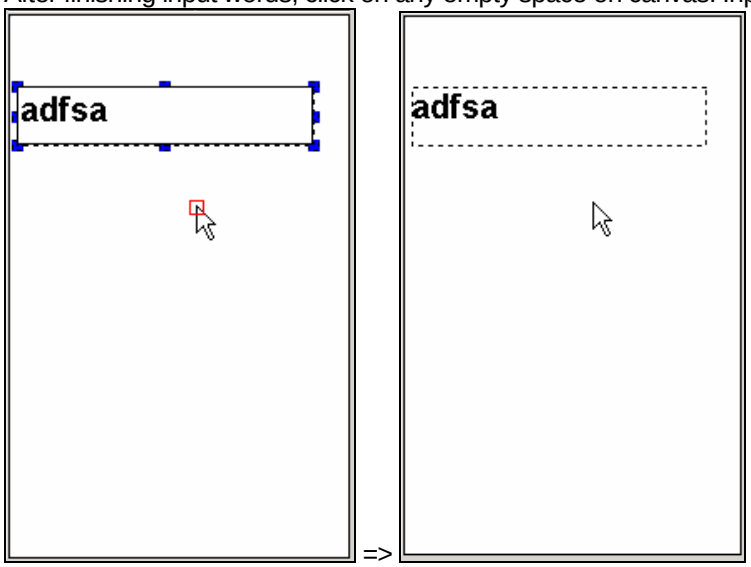
Session	Contents	Remark
Effects	The Effects section will appear when this check box is checked.	
Font..	<Font .. > window will show up.	Refer to the below Font window image
B	Select/unselect Bold.	
15	Change font size.	
	Adjusting the font alignment. Left , Center, and Right alignment	

Font window pops up when button clicked.



If you want to modify words, then double click on the text diagram.

After finishing input words, click on any empty space on canvas. Inputting words complete.



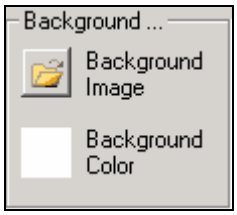
- **Image Properties**

  Image Properties window will show up at the right side when you select image diagram.

Session	Contents	Remark
	File Open window will show up. Image adds to the image diagram when you select an image file.	

- **Background Properties**

  Background Properties window will show up when you click on any empty space of canvas.



Session	Contents	Remark
	File Open window shows up. Background image will be applied when you select a file.	
	Color window shows up. When you select a color, it applies to the background color. Background image will disappear as you apply background color.	

Database Configuration

It explains how to set up configurations to interface with database.

- **Feasible database Interface**

Session	Contents	Remark
Microsoft SQL Server or MSDE	Interface with Microsoft SQL Server database	iTDC PRO II DUAL PRO II
Access Database (.mdb)	Interface with Access Database (*.mdb).	iTDC PRO I DUAL PRO I

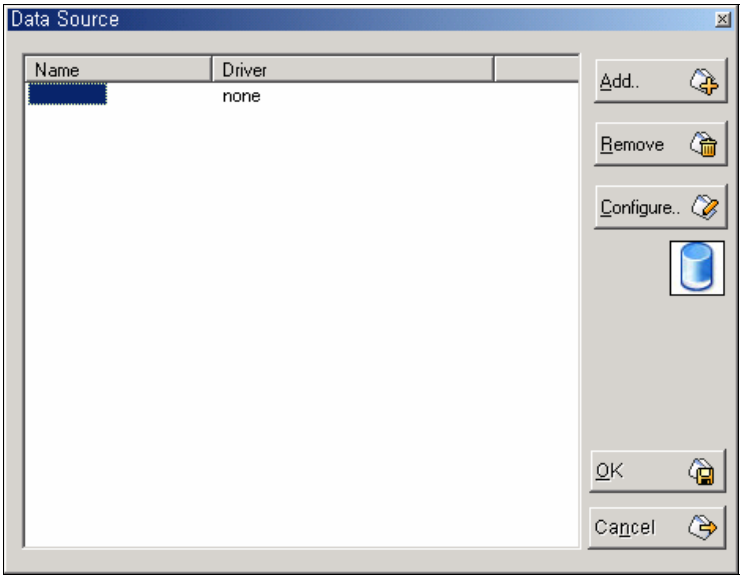
**** STARWATCH ITDC PRO I and STARWATCH DUAL PRO I software interface with Access Database.***

**** STARWATCH ITDC PRO II and STARWATCH DUAL PRO II software interface with Microsoft SQL Server database.***

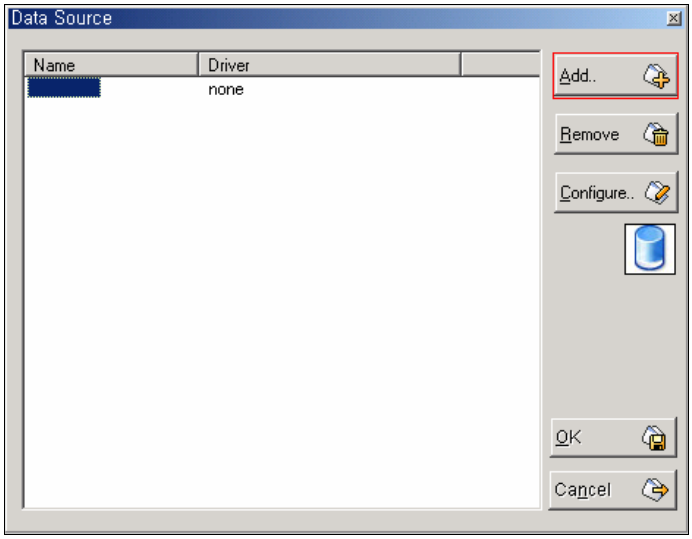
- **Add database**

5) Select Database Configuration under Tools menu.

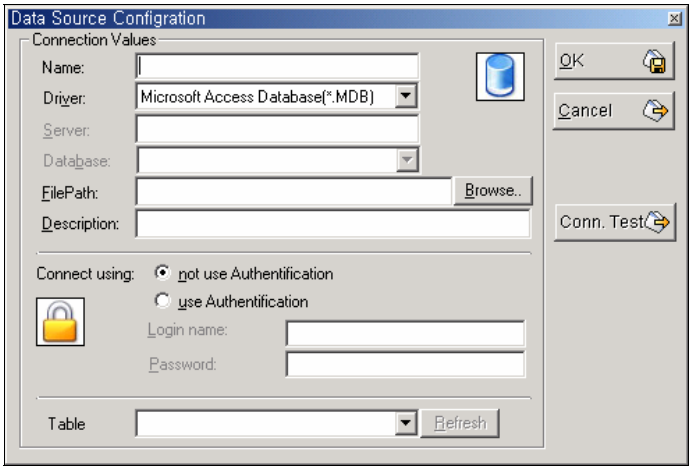
6) Data Source window pops up.



7) Select <Add> button to add new database.



8) Data Source Configuration window pops up.



9) Input Data Source name that user can easily distinguish.

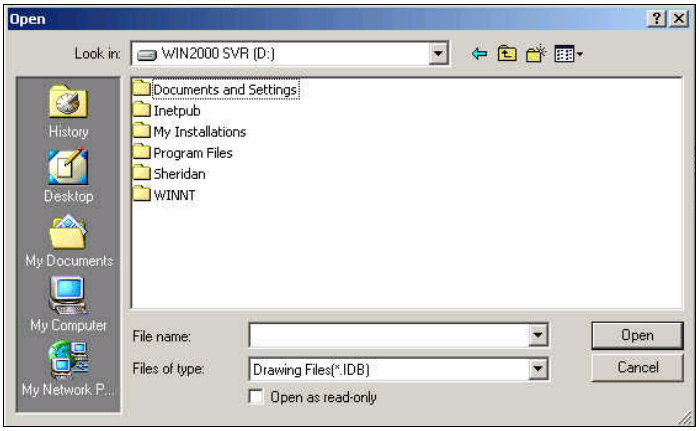
10) Select <Driver>. There are **[Microsoft Access Database (*.MDB)] and [MS-SQL Server or MSDE]**.

Remark	Driver
[STARWATCH ITDC PRO I] [STARWATCH DUAL PRO I] user or Interface with Access Database	Microsoft Access Database(*.MDB)
[STARWATCH ITDC PRO II] [STARWATCH DUAL PRO II] user or Interface with MS-SQL Server / MSDE	MS-SQL Server or MSDE

Using [Microsoft Access Database(*.MDB)]

11) Select [Browse…] button from File Path for [Microsoft Access Database (*.MDB)].

Select desired Access Database file when Open window pops up.



[DB file default installation path for each STARWATCH software]

Access Control software	File Path
STARWATCH ITDC PRO I	C:\PROGRAM FILES\IDTECK\STARWATCH DUAL PRO\ iTDC-ACS.MDB (Default)
STARWATCH DUAL PRO I	C:\PROGRAM FILES\IDTECK\STARWATCH DUAL PRO\ STAR-ACS.MDB (Default)
Other Access file user	Select Access file to use

12) Input a <Description>. It explains current database and is optional field.

13) Input a <Connect Using>.

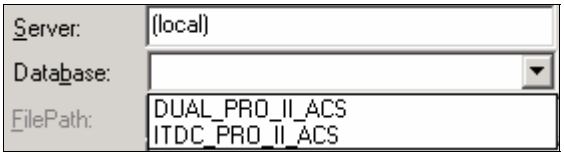
In case of [Microsoft Access Database (*.MDB)], select <use Authentication> if MDB file has locked with password.

Input a password in Password session.

If there is no MDB file password, then select <Not use Authentication>

Using [MS-SQL Server or MSDE]

14) In case of [MS-SQL Server or MSDE], input an information of <Server> and <Database>.



[Server input]

Input “Local” if database server is installed on same PC that STARWATCH ID BADGING software is also installed. If database server is installed on other PC, then input an IP address for the PC that database server installed

[Input Database session]

Access Control software	Database name
STARWATCH ITDC PRO II	ITDC_PRO_II_ACS
STARWATCH DUAL PRO II	DUAL_PRO_II_ACS
Other Access file user	Input Database to use

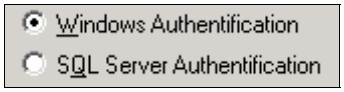
15) Input a <Description>. It explains current database and is optional field.

16) In case of [MS-SQL Server or MSDE], it is common that database server is installed on the same PC that STARWATCH ID BADGING is installed

In this case, input a [Windows Authentication].

Select [SQL Server Authentication] if database server is installed on other PC or it requires some specific authentication.

Input <Login Name> and <Password>.



Access Control software	Connect Using
[STARWATCH ITDC PRO II] [STARWATCH DUAL PRO II] Database server installed on the same PC	Windows Authentication
[STARWATCH ITDC PRO II] [STARWATCH DUAL PRO II] Database server installed on other PC	SQL Server Authentication Input <Login Name> and <Password>
Other database user	Contact Database administrator

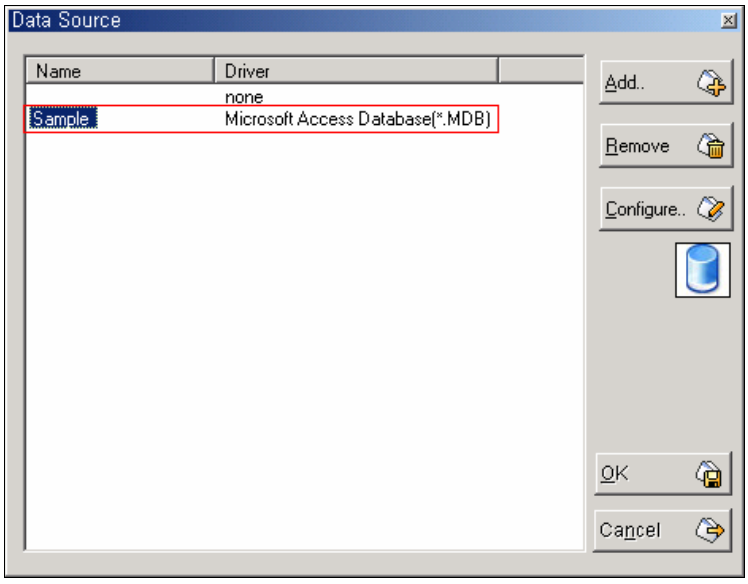
17) Input Table Information.
If you are using STARWATCH series (STARWATCH ITDC I/II, STARWATCH DUAL PRO I/II), then select [STARWATCH PACKAGE].

For other database user, input a table name related to the database.

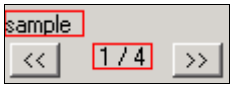
18) Testing connection, [Conn. Test]. If connection succeeds, then success message pops up.

19) Click <OK>. Data Source Configuration window will be closed.

20) Now, you will see database that just added. Select newly added database.



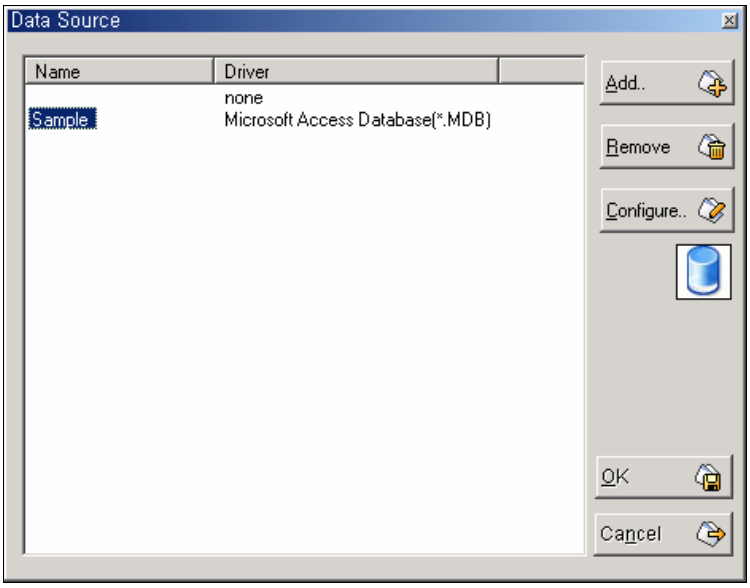
21) Click <OK>. Data Source window will be close.
Check the data name and record numbers that interfaced with database.



■ **Modify Database**

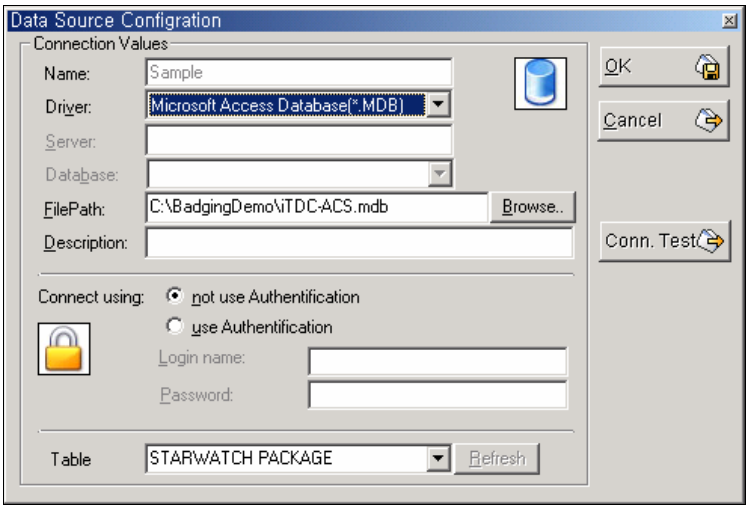
1) Select Database Configuration under Tools menu.

2) Data Source window pops up.



3) Select the data source that needs to be modified and click <Configure…> button.

4) Data Source Configuration window pops up.

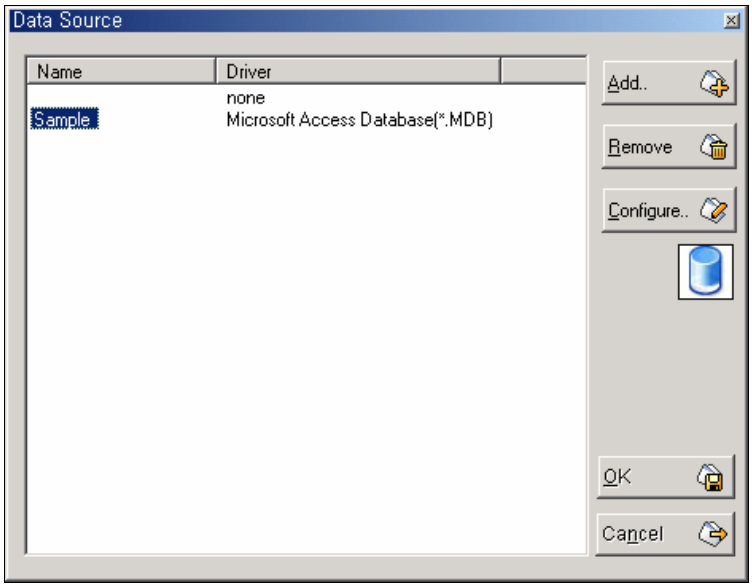


5) Change settings refer to the Add Database session.

■ **Delete Database**

1) Select Database Configuration under Tools menu.

2) Data Source window pops up.

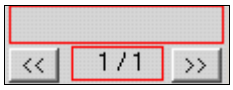


3) Select Data Source that you want to delete and click <Remove> button.

The "none" selection for Driver disconnects to the database settings and is not possible to modify or delete.

4) Select "none" for Driver and click <O.K.>.

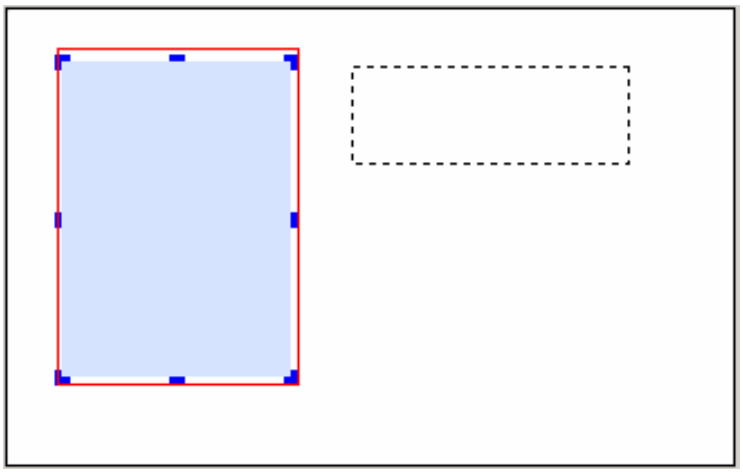
5) Check if database connection has disconnected.



- **Database field setting**

  For text diagram and image diagram, you can show database records information by using database fields.

1) Select diagram that you want to set up database field. Select text diagram or image diagram.



2) Data Fields property window shows up at the right.

3) Select Database Field that you want to set up.

e.g.) select Photo database field for image diagram.

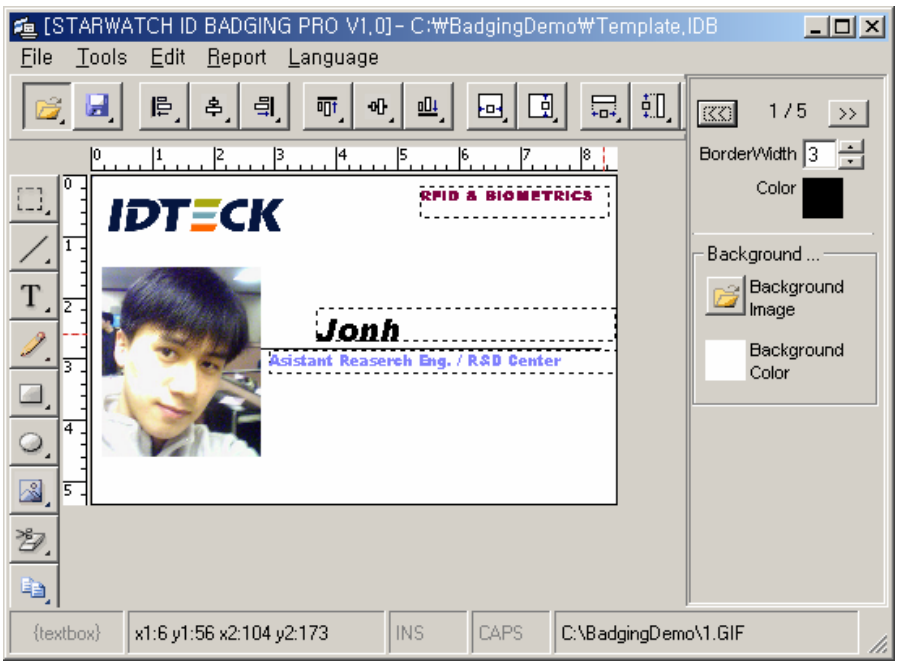
In case of image diagram, you need to select database field that has a value of path where image saved. If there is no image at the path, then there will be no image showing up.

4) You will see a picture on the image diagram.

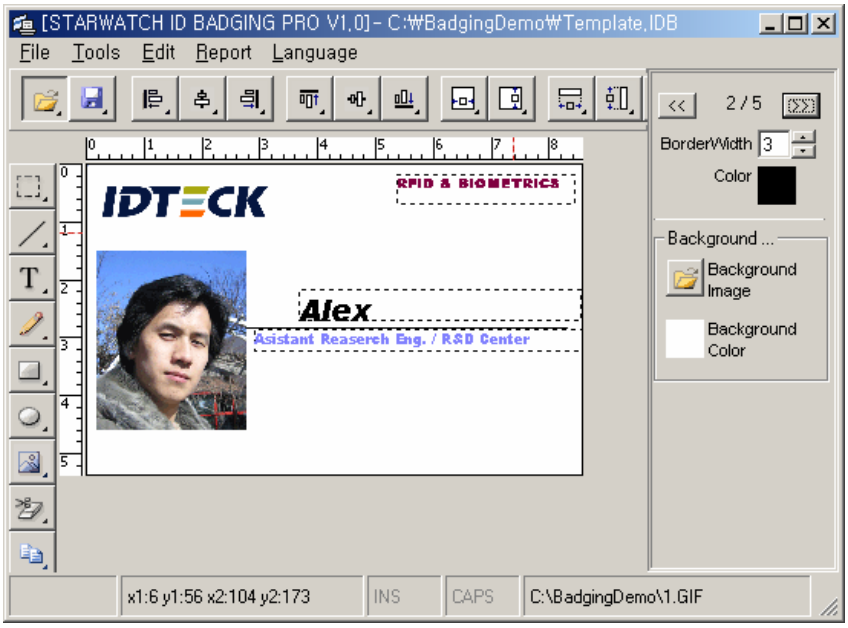
■ **Moving record set**

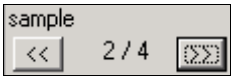
If database is connected, then you will see the number of record sets and can move to the next data in record sets. You can move record set one to another by using previous (<<) and next (>>) buttons.

[e.g. selecting NEXT (>>) button]



Click next (>>) button





You cannot move to the previous (<<) record set if dataset is the first one.
Also, you cannot move to the next (>>) record set if dataset is the last one.

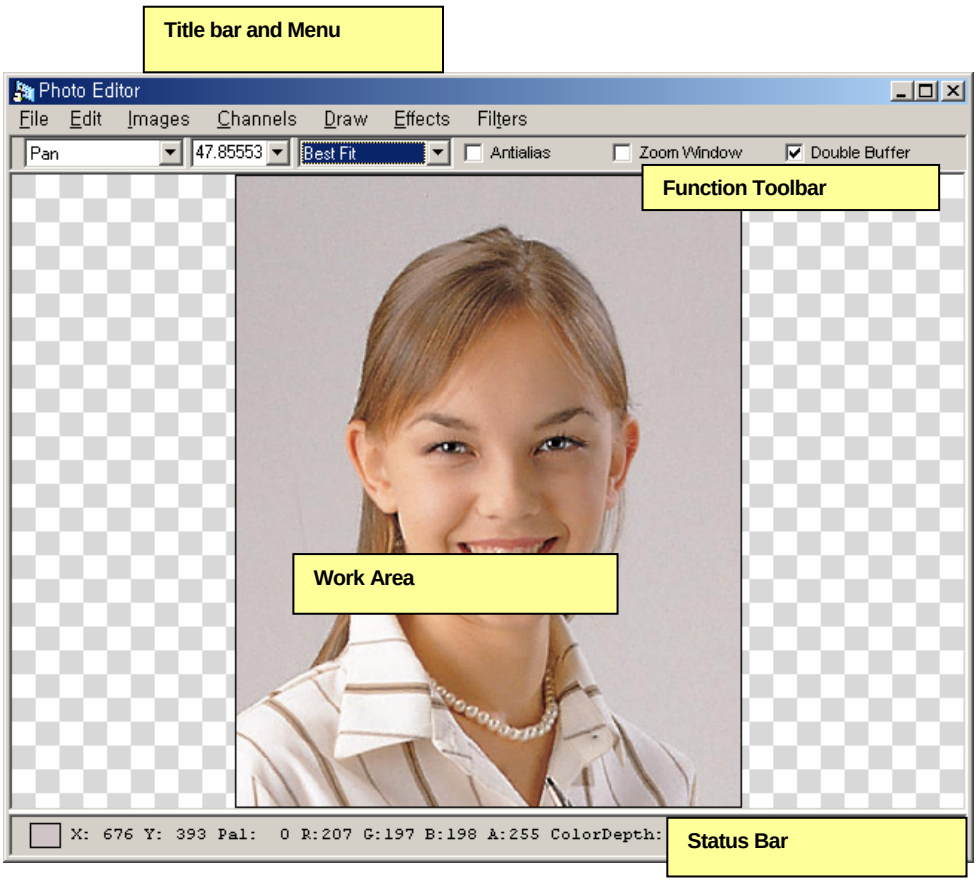
6. Photo Editor

This chapter explains Photo editor's functions and instructions on using specific details.

Photo editor brings the picture from scanner, various digital equipments such as image camera, digital camera, and scanner including various editing function Also, the picture which editing has been completed can immediately apply to designing screen.

Main Window

Top of the main screen is composed of Menu and Toolbox. Work image is registered on the center. There is state indication line that marks edited state on lower column.

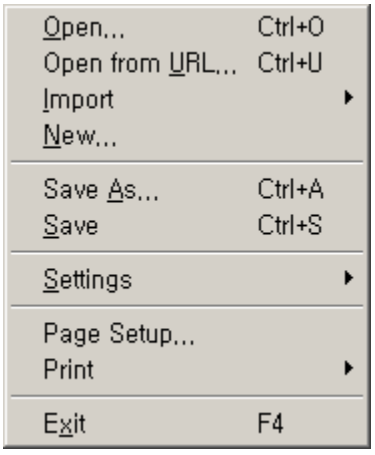


Menu

The following explains about each Menu's specific function.

File

There are image bringing function from file administration, printing administration, and digital equipment on File Menu.



Menu			Shortcut Key
File			
	Open	Brings image file	CTRL + O
	Open from URL	Open from web page image	CTRL + U
	Import	Brings all kinds of image	
	New	Creates new image work	
	Save As	Save as other name	CTRL + A
	Save	Save	CTRL + S
	Settings	Different kinds of Setting	
	Page Setup	Setups printing page	
	Print	Print	
	Exit	Ends photo editor	F4

- **Open**

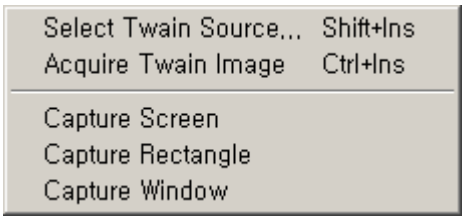
  Brings image file

- **Open from URL**

Brings image file from web page image

- **Import**

  Bring image from digital equipment(digitial camera, Seukeneo, image camera etc.) that is compatible with Twain driver or captures window screen.



- **New**

  Edits new image work.

- **Save As**

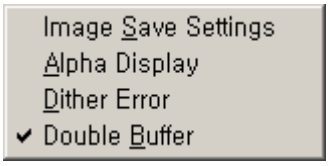
  Saves edited image as different name.

- **Save**

  Saves edited image.

- **Settings**

  Setups all kinds of image.



- **Page Setup**

  Selects paper for printing.

- **Print**

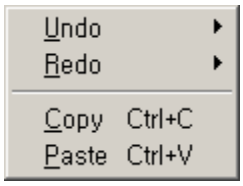
  Print outs image that is being edited.

- **Exit**

  Ends editing and returns to designing screen

Edit

There are returning ,copying, pasting function in Editing menu.



Menu			Shortcut Key
Edit			
	Undo	Undo	CTRL + Z
	Redo	Cancel Undo	CTRL + R
	Copy	Copies selected area	
	Paste	Pastes selected area	

- **Undo**

  Cancels the last work.

- **Redo**

  Returns to state before

- **Copy**

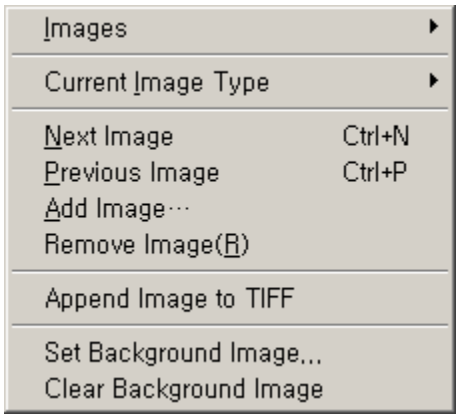
  Stores image of selected territory to clipboard.

- **Paste**

  pastes image stored from clipboard.

Image

There are functions about various image setups.



Menu			Shortcut Key
Image			
	Images	Converts current image	
	Current Image Type	Converts form of image	
	Next Image	Converts to next image	CTRL + N
	Previous Image	Converts to previous image	CTRL + P
	Add Image	Adds image	
	Remove Image	Removes current image	
	Append Image to TIFF	Adds current image to TIFF image file	
	Set Background Image	Setups background Image	
	Clear Background Image	Removes background image	

- **Images**

  Able to convert current image to see working image list.

- **Current Image Type**

  Converts current image type.

- **Next Image**

  Edits next image.

- **Previous Image**

  Edits previous image

- **Add Image**

  Adds image that needs to be edited

- **Remove Image**

  Removes current image.

- **Appent Image to TIFF**

  Adds current image to TIFF image file

- **Set Background Image**

  Setups background Image

- **Clear Background Image**

  Removes background image

Channel

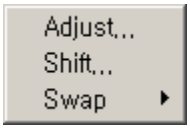
Controls image channel

Menu			Shortcut Key
Channel			
	Alpha	Controls alpha	
	RGB	Controls RGB(red, green, blue)	
	HSL	Controls HSL(Hue-Saturation-Brightness)	

- **Alpha**

  Controls alpha

- **RGB**



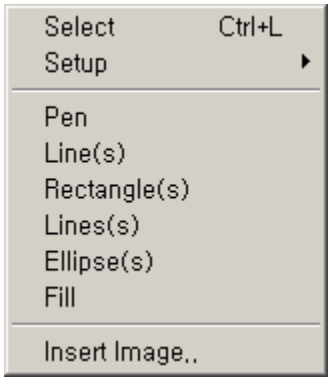
Controls image based on RGB(red, green, blue)

- **HSL**

  Controls HSL(Hue-Saturation-Brightness) shade, chroma, brightness.

Drawing

Performs all kind of drawing works



Menu			Shortcut Key
Drawing			
	Select	Selects area	CTRL + L
	Setup	Setups all kind of drawing functions	
	Pen	Drawing with pen	
	Line(s)	Drawng line	
	Rectangle(s)	Drawing rectangle	
	Lines(s)	Drawing connected line	
	Ellipse	Drawing ellipse	
	Fill	Filling in chosen side	
	Insert Image	Inserting image	

- **Select**

  Selects area for editing.

- **Setup**

  Setups different kind of drawing type

  Set up each

Color : selects color

Antialias : Controls Antialias

Thickness : Controls thickness of the line.

Fill Style : Controls filling style

Opacity : Controls opacity.

Texture : Controls background texture.

- **Pen**

  Draws with pen.

- **Line(d)**

  Draws line

- **Rectangle(s)**

  Draws rectangle.

- **Lines(s)**

  Draws connection lines.

- **Ellipse(s)**

  Draws ellipse

- **Fill**

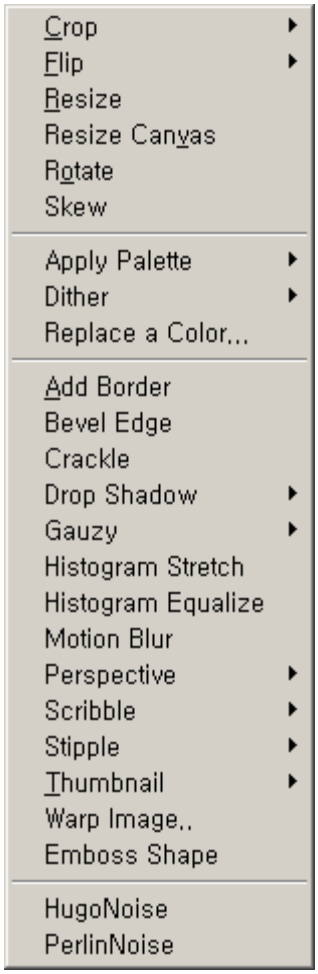
  Fills in the selected side.

- **Insert Image**

  Inserts image file in editing image.

Effect

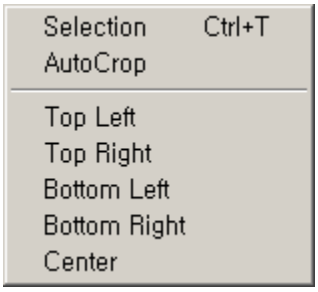
Handles drawing effects.



Menu			Shortcut Key
효과			
	Crop	Cuts image	
	Flip	Reverses up and down/right and left	
	Resize	Resizes image	
	Resize Canvas	Resizes canvas	
	Rotate	Rotates image	
	Skew	Inclines image (slant)	
		Other effects	

- **Crop**

  Cuts useless part of image.



- **Flip**

  Reverses image up and down/right and left

- **Resize**

  Resizes image

- **Resize Canvas**

  Resizes canvas.

- **Rotate**

  Rotates image.

- **Skew**

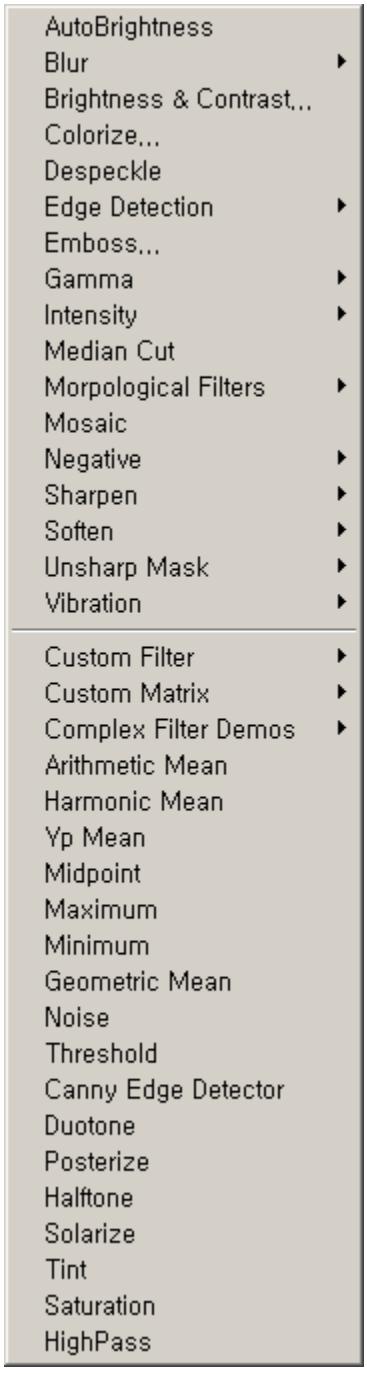
  Inclines image to make a slant

- **Other effects**

  In addition, other various effect are prepared for image . Perform to learn special quality of effect by executing directly.

Filter

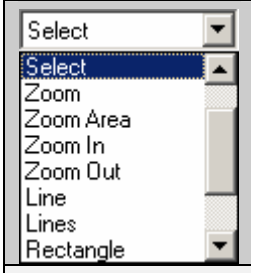
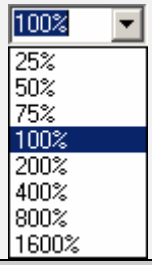
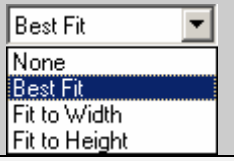
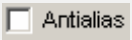
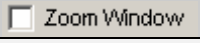
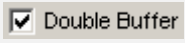
There are various image filters.



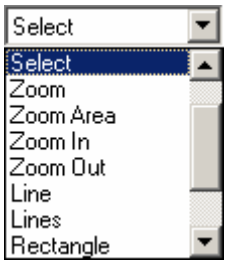
In addition, other various filters are prepared for image. Perform to learn special effect on filter by executing directly.

Function Toolbar

Function Toolbar Description

Tools	Name	Explanation
	Edit Tools	Selects Edit Tools
	Zoom	Image magnification selection
	Fit Image	Fits image automatically on screen
	Antialias	Decides application of image's Antialias
	Zoom Window	Decides indication of zoom window.
	Double Buffer	Decides use of double buffer.

- **Edit Tools**



Selects image Edit Tool.

None : Cancels current edit tool.

Pan : Rotates the picture up and down / right and left.

Select : Selects area

Zoom : Selects enlarging/reducing function.

Zoom Area : Enlarges selected area.

Zoom In : Enlarges

Zoom Out : Reduces.

Line : Draws line

Lines : Draws connecting line

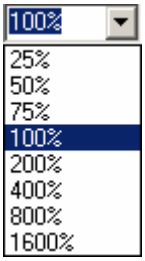
Rectangle :.Draws rectangle.

Ellipse : Draws ellipse.

Pen : Draws with pen.

Magnifier : Magnifies the wanted part.

- **Zoom**



Controls magnification of image.

- **Fit Image**

Sets image according to selected article.

- **Antialias**

Decides application of image's Antialias

- **Zoom Window**

  Decides indication of zoom window.

- **Double Buffer**

  Decides use of double buffer.

  What is double buffer? Using two buffers for editing image. One for buffering to show actual image on screen, other for using buffer for arithmetic image. When arithmetic is required in image, all arithmetic are processed from arithmetic buffer and when it is completed, it is copied and indicated on the screen by using double buffer.

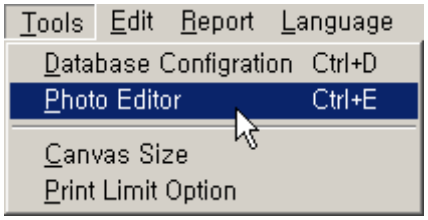
Method in using Photo Editor

Explains using method by putting fisrt, work that is used the most in photo editor.

Operation of Photo Editor.

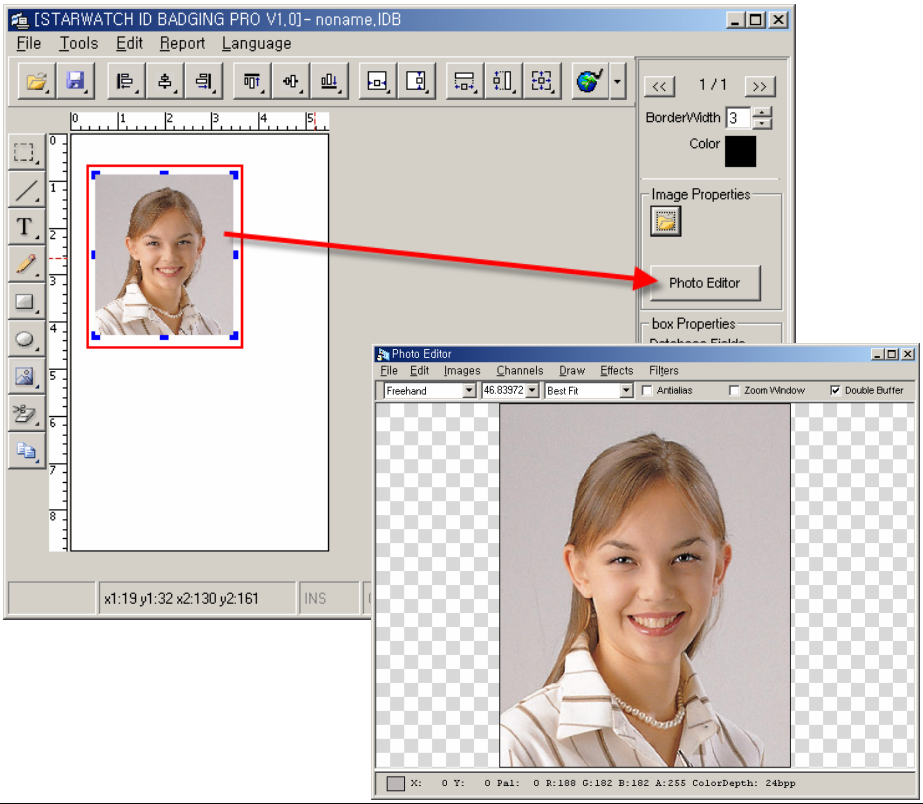
- **Basic operation**

  Select Tools -> Photo Editor or press CTRL + E



- **Operation after choosing image**

  Can directly edit selected image by pressing photo editor button of image selecting image. Choosing Tools -> Photo Editor or CTRL + E are the same function.



To bring image from digital equipment(digital kame, PC camera, and etc.)

Correct driver for PC must be installed to connect digital equipment. For installation of driver, refer to an appropriate manual.

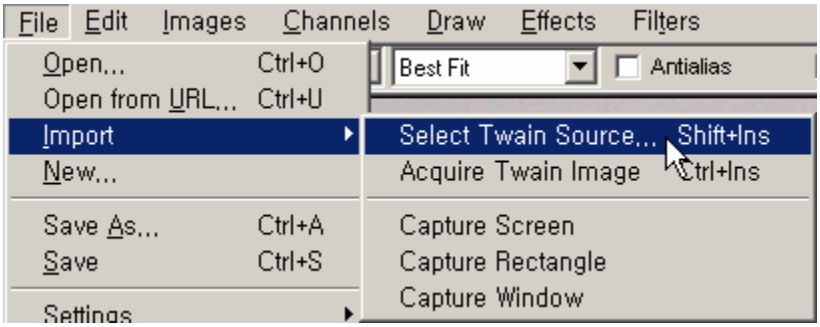
■ **Digital camera (Twain gear method)**

Can bring image in occasion of exchange with PC and data by Twain gear method as shown below. For reference, digital camera of cannon is known as the representative of digital camera using Twain method.

1) Operate pc connection mode after interlinking appropriate digital camera and PC.

Refer to appropriate manual because all PC connection mode is different from each digital camera.

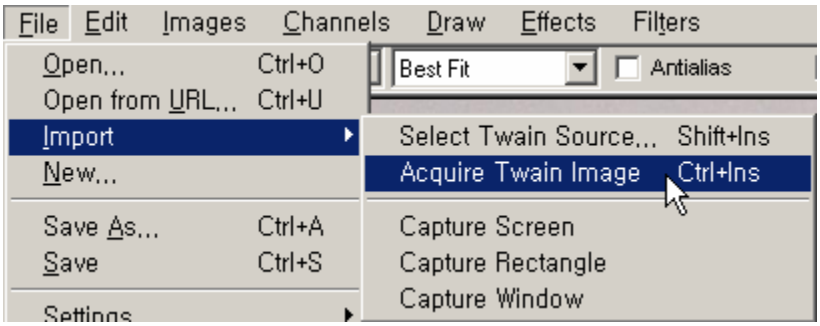
2) File -> Import -> Select Twain Source...



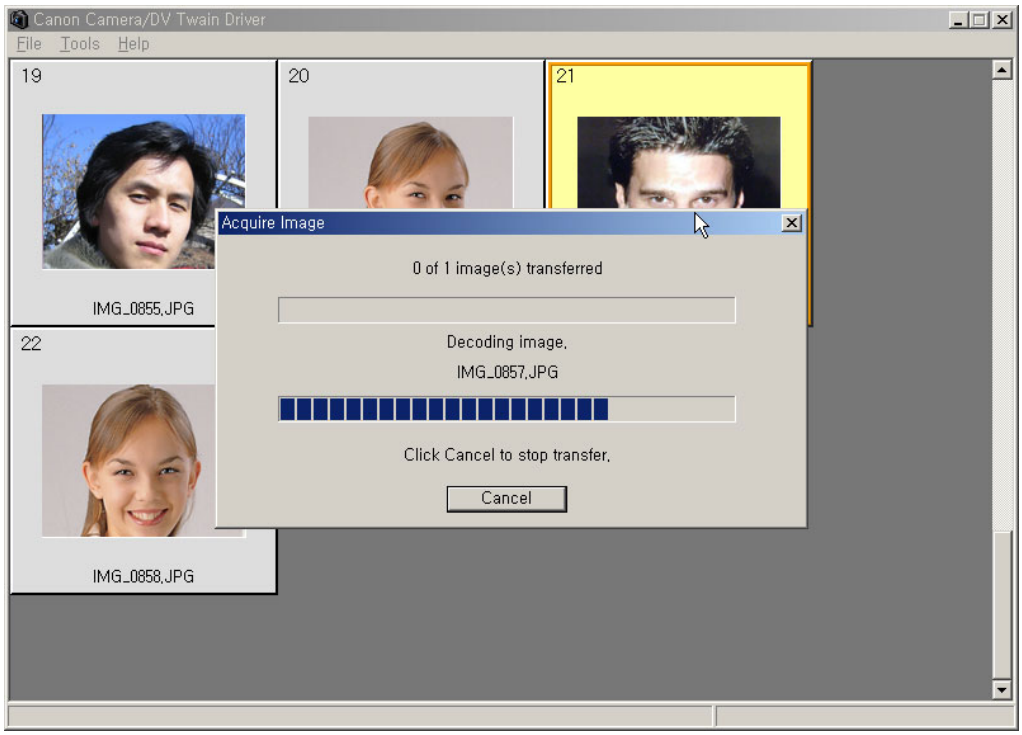
3) Select appropriate equipment from original.

Original list can be shown different depending on installation to PC.

4) File -> Import -> Acquire Twain Image



5) Brings selected image by double clicking the wanting image.



Bringing screen can be different according to camera driver. Refer to equipment manual.

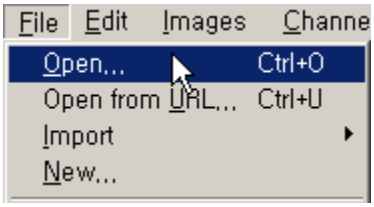
■ **Digital Camera (Portable type disk method)**

. Digital camera with movable disk, when connecting with PC, brings image as shown below. For reference, Nikon and Olympus is the digital camera that supports movable type disk method.

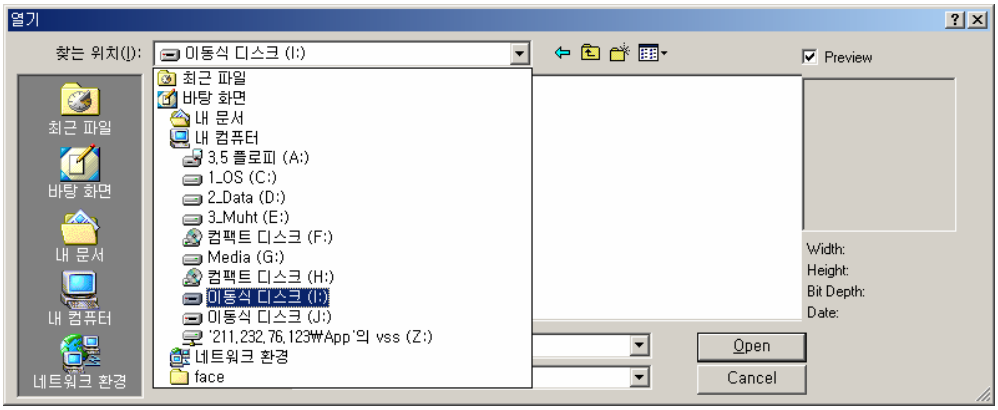
1) Operate PC connection mode after interlinking digital camera with PC.

Refer to appropriate manual due to differences in every digital camera in PC connection mode.

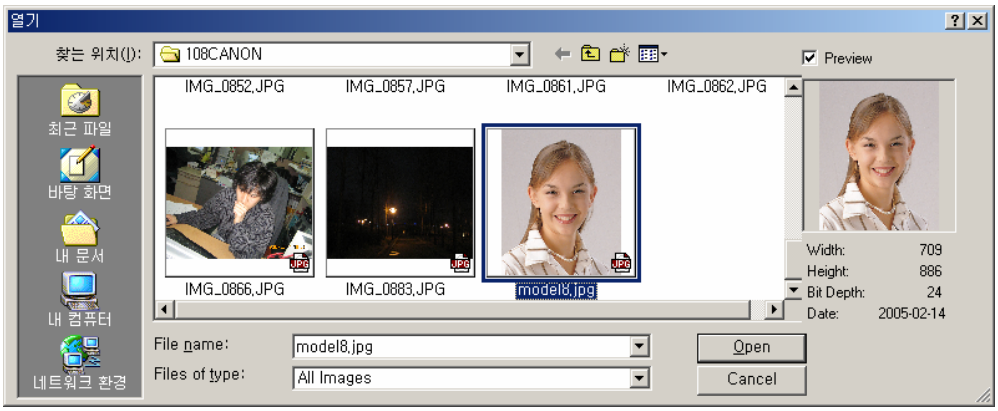
2) File -> Open



3) Select movable disk.



4) Choose the wanted file form the movable disk and open it.



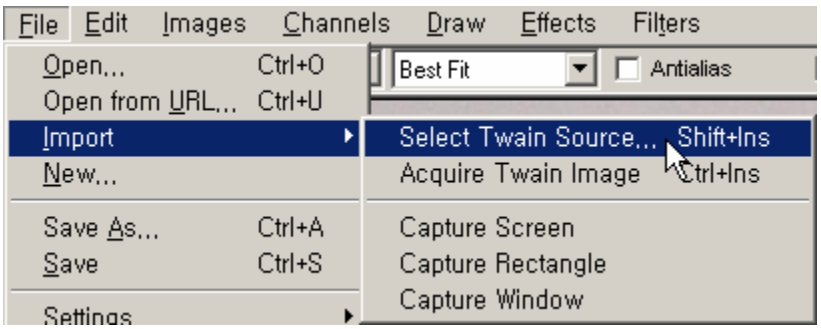
5) In the case of movable type disk, can not summon appropriate image if is removed from PC. Therefore, file which has been brought from movable disk must be stored to HDD by function [save as an other name] after finish editing.

■ **PC Camera**

It is possible to bring picture from the PC camera in following orders as shown below.

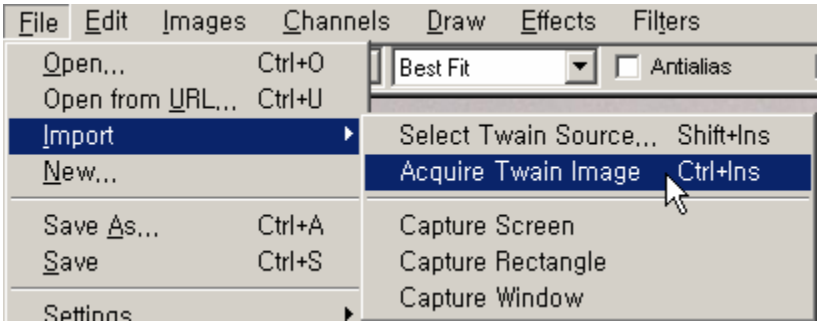
1) Connect the appropriate digital camera with PC.

2) Select File -> Import -> Select Twain Source..

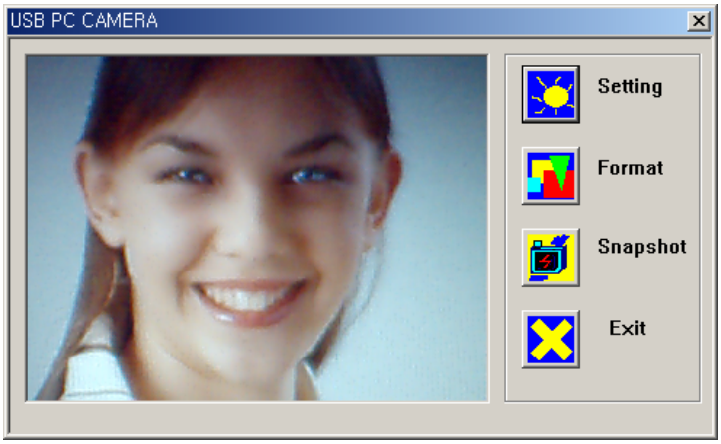


3)Select wanted equipment from the original.

4) Select File -> Image -> Acquire Twain Image



5) Take picture and bring image.



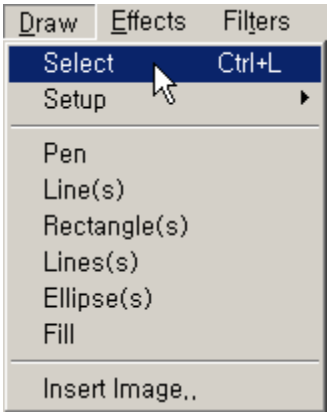
Bringing screen can be different according to PC camera driver. Refer to equipment manual.

Cutting the image

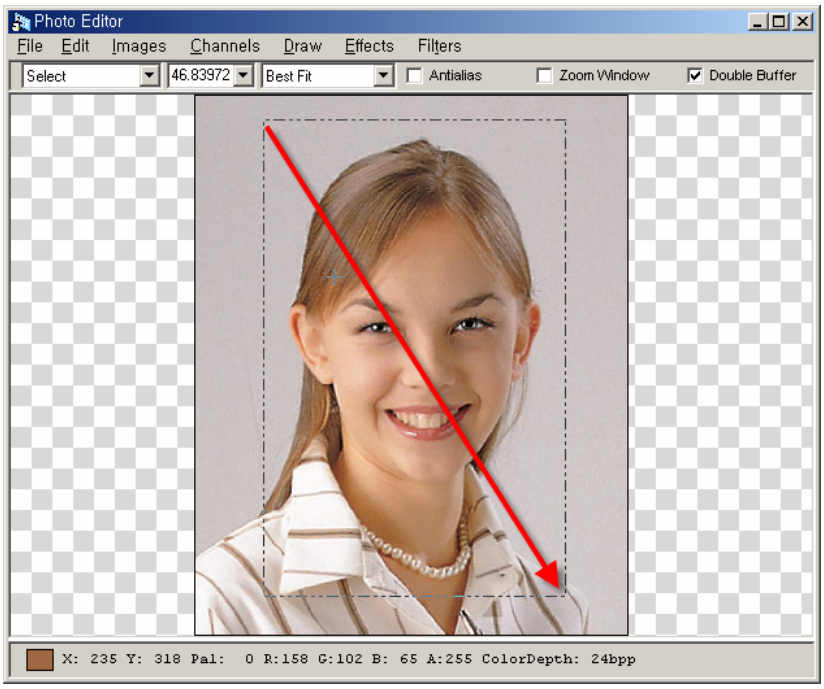
- **Method of cutting specific part of image**

  Use when only part of the image wants to be edited.

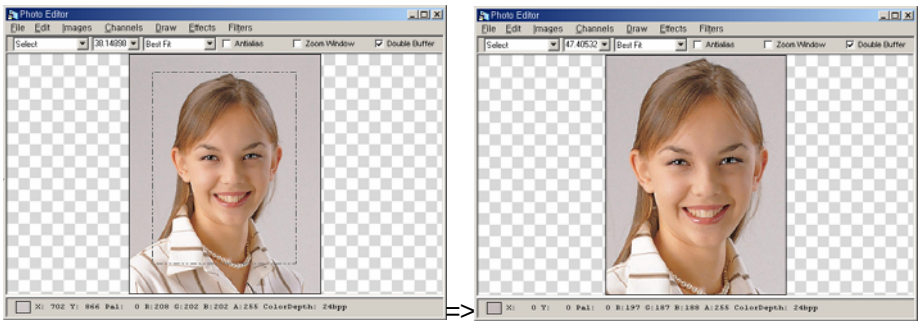
  1) select Draw -> Select or input CTRL + L



  2) Select drag and drop to cut out the part that user wishes.



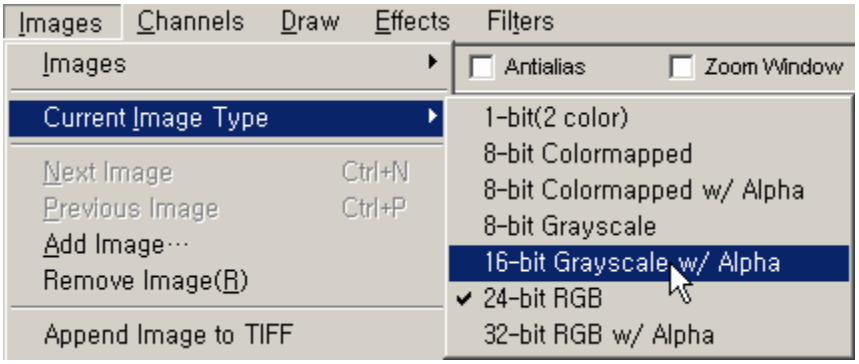
3) Select Effects -> Crop -> Selection or input CTRL + T .

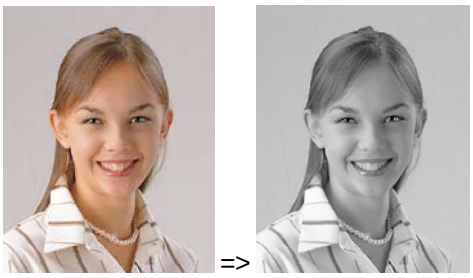


Changing image to black and white.

- **Changing image to black and white.**

1) Select Image -> Current Image Type -> 8-Bit Grayscale or 16-it Grayscalew/ Alpha

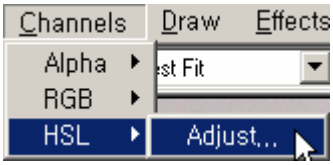




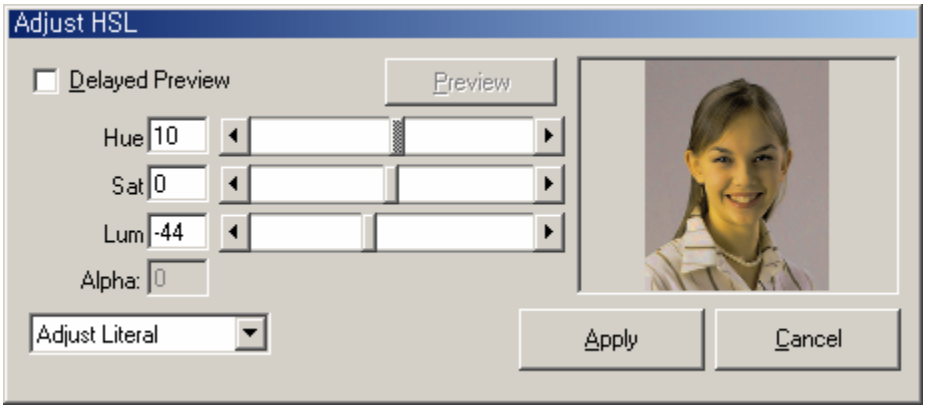
Control of color tone, chroma, and brightness

- **Method of controlling color tone of image, chroma, brightness**

1) Channels -> HSL -> Adjust.



2). Chooses application after controlling Hue, Sat, Lum properly



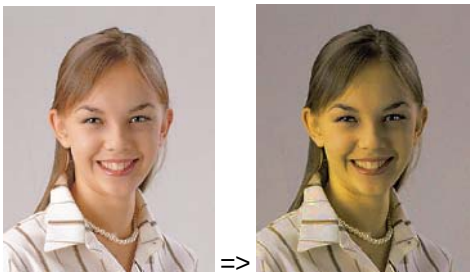
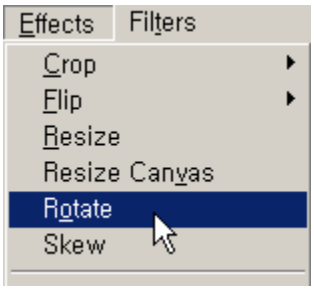


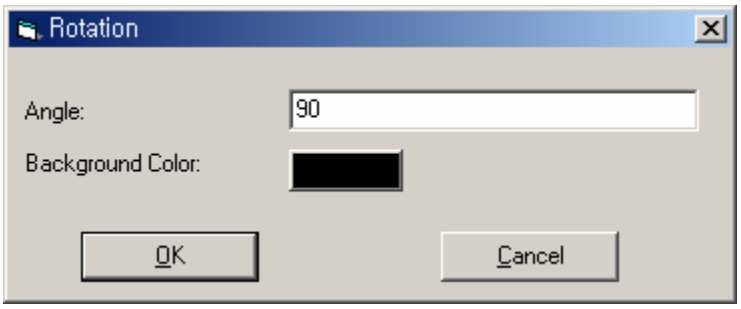
Image rotation

- **To rotate image**

1) Effects -> Rotate



2). Inputs rotation in wanted angle and background color.

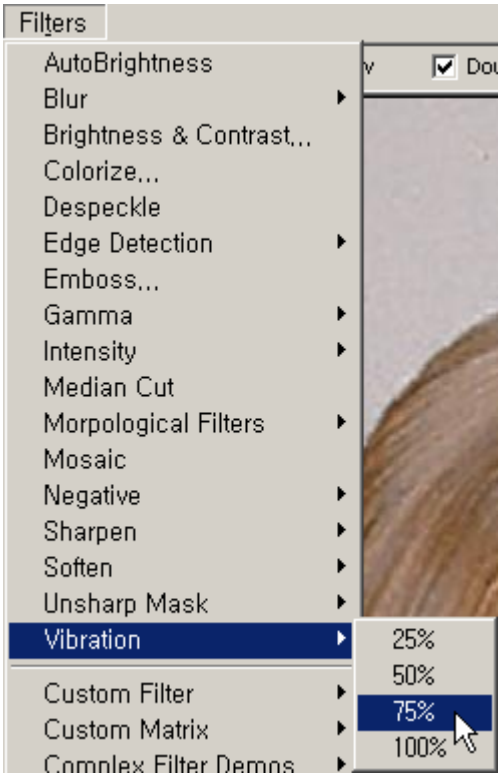


Examples on Filter use

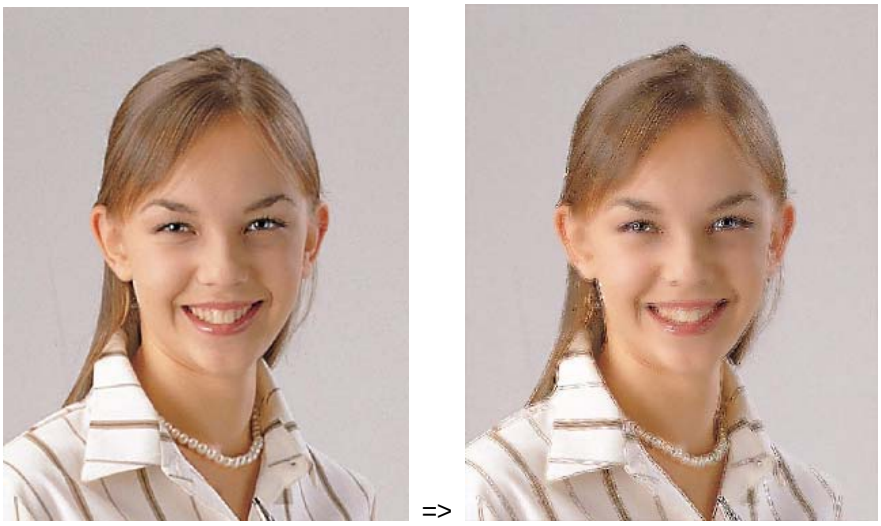
Examples on different types of filter use.

- **Examples on Vibration Filter use**

  1) Filters -> Vibration -> 75%



  2) You can see the filtering has been done.



Filter Description

Describes shortly on description and results after filtering.

- **Original Image**

Original image before filtering.

- **Autobrightness**

Controls brightness of the image automatically.

- **Brightness & Contrast**

Controls brightness and contrast.

- **Colorize**

Colorize the image..

- **Mosaic**

Mosaics the image.

- **Oil Painting**

Oil paints the image.

- **Posterize**

Posterize the image.

- **Solarize**

Solarize the image.